HOPKINTON-EVERETT FLOOD CONTROL RESERVOIR

Hopkinton, Dunbarton, Henniker, Weare, New Hampshire

Forest Management Plan

Master Plan Appendix B

and

Fish and Wildlife Management Plan

Master Plan Appendix D

Jointly Prepared By

State of New Hampshire

Department of Resources and Economic Development

Division of Forests and Lands

Concord, New Hampshire

and

Department of the Army

New England Division, Corps of Engineers

Operations Division

Waltham, Massachusetts

July 1981

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20. ABSTRACT *(Continue on reverse side if necessary and identify by block number)*

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REFERENCE OR OFFICE SYMBOL	SUBJECT
NEDOD-P	Master Plans, Appendices B & D, Forest, Fish and Wildlife Management Plan, Hopkinton-Everett Dam

TO	FROM	DATE	CMT 1
See Distribution	Chief, Operations Division	19 November 1981 Mr. Mitchell/cp/305/306	

1. The subject appendices, prepared in accordance with ER 1130-2-400, dated May 1971, has been approved by the Division Engineer.

2. The plan has been developed to increase the value of reservoir lands for recreation and wildlife, and to promote natural ecological conditions by following accepted conservation practices.

3. This plan has been developed in coordination with the New Hampshire Department of Resources and Economic Development.

V.L. ANDRELIUNAS
Chief, Operations Division

Incl
as

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TO	FROM	DATE	CMT 1
Division Engineer	Chief, Operations Division	23 October 1981 Mr. Mitchell/cp/305/306	

1. Inclosed for your approval is the Forest and Fish and Wildlife Management Plan for Hopkinton-Everett Dam. This plan will serve as Appendices B and D to the Master Plan for this project.

2. It has been prepared in conjunction with ER 1130-2-400, dated 28 May 1971. It has been reviewed by NED Planning, Engineering and Real Estate Divisions; and the New Hampshire Department of Resources and Economic Development. Appropriate changes have been incorporated.

3. Division Engineers have been designated as approval authority for these plans by ER 1130-2-400. Information copies are to be forwarded to OCE upon approval.

Incl
as

V.L. ANDRELIUNAS
Chief, Operations Division

CF: Opers Div File

NEDDE

TO: Chief, Operations Division FROM: Division Engineer DATE: 3 November 81 CMT 2

[X] APPROVED [ ] DISAPPROVED

C.E. EDGAR, III
Colonel, Corps of Engineers
Division Engineer

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HOPKINTON-EVERETT FLOOD CONTROL RESERVOIR

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SECTION I. INTRODUCTION

Purpose

The purpose of this Master Plan Appendix is to present a comprehensive and coordinated management program for the forest, fish and wildlife resources contained within the project boundaries of the Hopkinton-Everett Flood Control Reservoir and to provide a framework with which to manage these resources. The importance of these resources as part of the ecosystem of the Merrimack River Basin necessitates the development of a plan to delineate management objectives, practices, and priorities which are compatible with other resource goals, directed toward both consumptive and non-consumptive utilization by the public, and attainable within the limitations of the land and its renewable resources.

Authorization

Authorization for the project is contained in the Flood Control Act of June 28, 1938, House Document No. 689, 75th Congress, 3rd Session, as amended by the Acts of 1941 and 1944, and the Merrimack River Flood Control Compact of 1957.

Management Objectives

The objectives of this management plan are to outline resource management practices which are compatible with flood control operations and multiple-use practices. Forest, fish and wildlife management, diversified recreational use of project natural resources and, where compatible and practicable, provisions of wood products for project and commercial use are all taken into consideration.

Coordination

This plan has been developed as a joint effort by the U. S. Army Corps of Engineers and the New Hampshire Department of Resources and Economic Development, Division of Forests and Lands, with review by the New Hampshire Fish and Game Department.

SECTION 2. PROJECT DESCRIPTION

Location

Hopkinton-Everett Dams, controlling a drainage area of 490 square miles, are located within the towns of Hopkinton and Dunbarton in Merrimack County, and Henniker and Weare in Hillsborough County, New Hampshire.

Acquisition

Authorization from the construction and operation of Hopkinton-Everett Dams and Flood Control Reservoir comes from the Flood Control Acts of 22 June 1936 (Public Law 738, 74th Congress); and of 28 June 1938 (Public Law 761, 75th Congress). It is designed to operate as part of a flood protection system in conjunction with four flood control reservoirs in the Merrimack River Basin. These are Hopkinton-Everett Lakes on the Contoocook and Piscataquog Rivers, Edward MacDowell Dam on Nubanusit Brook, Franklin Falls Dam on the Pemigewasset River and Blackwater Dam on the Blackwater River.

Hopkinton-Everett Dams and Flood Control Reservoirs comprising of approximately 8,800 acres, is owned by the United States Government. Reservoir management and operation functions are administered by the Department of the Army, New England Division, Corps of Engineers. Forest resources management has been implemented by the State of New Hampshire, Department of Resources and Economic Development, through a wildlife, forestry and recreation license granted in April 1964.

Boundaries

The Hopkinton-Everett Flood Control Reservoir has been surveyed and bearings have been established utilizing the New Hampshire Plan Coordinate System. Approximately seventy-seven (77), more or less, miles of boundary have been located. Corners have been permanently established and can be identified by brass identification hubs imbedded in the top surface of concrete posts.

Access

The Hopkinton-Everett Dams and reservoir areas are readily accessible by an excellent Highway system. The Principal routes passing by or through the project are as follows: East-West; US 202, NH 9, NH 77. North-South; NH 114, and NH 13. In addition, vary town roads, mostly paved, connect to these highways and offer good access to all parts of the project.

Major roads through the interior other than the above are open at the present time in the summer, but are unmaintained in the winter:

Henniker: old Rt 114
Hopkinton: Emerson Hill road; Stumpfield road, Bassett Mill road, Gage Hill road
Weare: Old Rt 77
Dunbarton: old Rt 77, Alexander road, Ray road, Cross road

There are also many old farm roads passible by truck and/or four wheel drive vehicles in the dry season. The estimated mileage: Tar Roads, 7 miles; General Purpose Gravel roads, 20 miles; Four-wheel drive and trails, 5 miles.

History

Construction of the Hopkinton-Everett Dams was started in April 1959 and completed in January 1963. The dam was designed and constructed to provide flood protection to downstream areas along the Blackwater, Contoocook, and Merrimack Rivers.

In 1959, the State Forester requested that the then New Hampshire Forestry and Recreation Commission assume responsibilities for the management of the reservoir area in the areas of forest conservation, wildlife, recreation, forest insect and disease control, and forest fire protection. In July 1959, the New Hampshire Forestry and Recreation Commission was designated by the Governor of New Hampshire as the state agency to assume management responsibilities.

The New Hampshire Department of Resources and Economic Development holds a 25 year license for management of the recreation, fish and wildlife, and forestry resources of approximately 8,800 acres of reservoir land and water areas. Since issuance of the license, in April 1964, the forest management program has been involved in a variety of yearly activities:

1. Timber sales
2. Road maintenance
3. Fire control activities
4. Wildlife stocking activities
5. Boundary line maintenance
6. Timber cruising
7. Timber stand improvement work

A limited number of stumpage sales have been made to pay for the majority of activities mentioned above.

Operation of the Hopkinton-Everett Dams and Flood Control Reservoir has resulted in socio-economic effects to the immediate area and adjacent lands as well as remote downstream regions. Flood protection provided by the dams helps insure the continued use of downstream areas by commercial, industrial, and private interests.

The reservoir area also provides great diversification of recreational facilities, aesthetics, and habitat for birds and mammals. Careful management by the New Hampshire Department of Resources and Economic Development, Division of Forests and Lands, on a multiple use basis has protected and preserved the natural resources of the reservoir area for use and enjoyment of both present and future generations.

SECTION 3. PHYSICAL AND ECOLOGICAL CHARACTERISTICS

Climate

The overall climate of this region varies greatly from winter to summer and from day to night with a mean annual temperature of 45° F. The average monthly temperature varies from 70° F in July to about 20° F in January. The mean annual precipitation is about 37 inches in lowland elevations and 43 inches in upper elevations throughout the year. The average snowfall, which usually occurs between November and April, is about 60 to 70 inches. The growing season averages about 160 days.

Wind

Windfall potential for timber on Hopkinton-Everett is generally low to moderate. The soil types, species composition, and general meteorological conditions produce mixed White Pine - Transition hardwood forest which is characteristically deep rooted. Shallow soil areas exist on steep slopes and in wet areas. Stands of hemlock and spruce that occur on the project, because they are shallow-rooted, are prone to windthrow.

Undercut banks, slump areas, and flood-damaged trees exhibit the only serious windthrow potential on the project. Such danger areas will be noted by field personnel during the course of resource inventories. Preventive measures can be taken by project personnel or contracted labor.

Water Quality

Both the Contoocook River upstream of Hopkinton Dam and the Piscataquog River upstream of the Everett Dam are presently class C waters. Class C waters are acceptable for recreational boating, fishing, or for industrial water supply use. The water must contain not less than 5 mg/l. of dissolved oxygen. Coliform bacteria levels are not specified but must be present in counts in excess of the 240/100 ml class B mixture.

Topography

The topography of the Hopkinton-Everett project area consists of steep-sided wooded hills and broad open valleys. The topography along the stream and flood plains is flat. This condition extends only for a short distance before gentle slopes take over and extend to the boundaries of the flood control area (Elevation 420,0 $\pm$ feet).

The Contoocook River Pool behind the Hopkinton dam, which controls a drainage area of 426 square miles, is connected to Elm Brook Pool and Marsh by Canal No. 1. The reservoir area behind the Everett Dam, which controls a drainage area of 64 square miles is connected to the Hopkinton Reservoir by Canal No. 2. The two projects act as a single reservoir with a total storage capacity of 157,300 acre-feet.

During normal non-flood periods both Hopkinton and Everett Dams pools. The Hopkinton pool has a surface area of 120 acres at an elevation of 580 feet N.G.V.D., a shoreline length of 55,500 feet and a maximum depth of 15 feet. The Everett pool has a surface area of 130 acres at an elevation of 340 feet N.G.V.D., a shoreline length of 29,800 feet and a maximum depth of 15 feet.

Soils

All of the land area encompassed by the Blackwater Reservoir has been surveyed by the Soil Conservation Service. USDA soil maps and data sheets are available at the Soil Conservation Service County Extension Offices of Merrimack and Hillsborough Counties.

Development of Available Data: A variety of parameters and specifications are utilized by the Soil Conservation Service to present a guide for assessing the best uses for each soil type. A file of current, relevant survey sheets is located at the Merrimack River Basin Area Office along with one copy of the Merrimack County Soil Survey.

Soil Map mosaics have been pieced together for the reservoir lands. Mylar overlays which could be used with a standard base map should be produced to indicate soil areas suitable for wildlife habitat, agricultural leases, and forest type planning. Such characteristics as soil depth, pH, relative water percolation, index plant species, slope and water table depth must be considered along with land use needs to produce specific recommendations for Blackwater Dam.

The relative accuracy of the Soil Conservation Service data is excellent and will be considered adequate for this basin's planning program. Soil maps are accurate to 2 ± acres. Questions on management unit boundaries should be resolved by field inspections. Soil testing apparatus will be supplied at the basin level to assist field personnel in monitoring soil conditions and recommending soil conservation methods for specific land units, i.e., liming, fertilization, plant species for reforestation, etc. Certain local conditions can modify soils enough to warrant soil testing for a specific purpose or on a periodic basis. This is especially important with soils subject to varying periods of inundation resulting from reservoir operations. Eventually, accurate guidelines for fertilizer application and soil productivity practices can be developed.

The following are basic facts about the local soils:

1. They are moderately to highly acidic.
2. Most of the soils are sandy, with rapid water permeability, or poorly drained silty sand.
3. A portion of the project is classified as man-made soil because of construction activities, and as such is not classified by Soil Conservation Service in a land use category.
4. The predominant soil association is characterized by loose structure, moderate erosion potential, and mild slopes with intermittant steep slopes and depressions.
5. Natural regeneration of white pines and northern hardwoods is favorable on all soils in the project, with possible exceptions on the man-made soils.

The light, sandy texture of the local soils leads to an acidic, highly-leached substrate.

The soils are formed in the river valley from quartizite and mica shist minerals from the White Mountains, which were washed down after the last so-called Ice Age. The depth of the water table varies from 0-5 feet along the valley floor. In contrast to the outwash and alluvial soils found close to the river, the upland areas have deep sandy, very stony soils such as the Gloucester series. Most of the soils are considered immature, having very little horizon development. All typically have

a thin B level, although many of the non-stony soils have been modified by past plowing. A lack of water-retaining organic material near the surface leads to drought in the excessively-drained areas.

Cultivated Fields and Pastures

Approximately 754 acres are presently leased for agricultural purposes. Other fields are available for outgrant. Because agricultural use arrests plant succession, it helps maintain a variety of interspersed habitats for wildlife. Granting leases for cultivation and pasture is one of the most economical methods of maintaining and improving these critical areas.

Buffer zones of native grasses and shrubs should be maintained between cultivated fields and the river to prevent excess run-off of nutrients and topsoil.

Water Influence Zones

Consideration for the flood control mission of the project must be included in all resource inventory and management projects. The effects of operations on timber harvest debris, bank erosion, road and trail maintenance, and wildlife habitat need to be assessed by field observations and data interpretation.

Areas prone to annual flooding should be noted in addition to the 50 and 100 year levels. Such areas may be intensively managed to remove slump-prone vegetation and maintain a grass cover to hold the soil and minimize the amount of debris which is carried downstream by receeding flood waters.

Marsh Lands

The project contains a considerable amount of marsh habitat.

Timber

The Hopkinton-Everett Flood Control Project is located in a transitional zone of forest types. To delineate the forest cover types found at the Hopkinton-Everett project, cover maps were prepared from data collected during a systematic cruise of the reservoir. The guidelines for the determination of each cover type were taken from Forest Cover Types of North America, published by the Society of American Foresters.

Extensive land clearing by white settlers followed by massive shifts in population after the Civil War have resulted in second and third growth forests consisting predominately of the cover type White Pine (Pinus strobus). White Pine is frequently the first type to occupy agricultural alnd after abandonment or timber cuttings, and is found in all compartments and stands. Associated species are numberous; the principle ones are: Northern Red Oak (Quercus rubra) and Red Maple (Acer rubrum).

The second most frequent type is Eastern Hemlock (Tsuga canadensis) with associated species Red Oak, Red Maple, and White Pine.

The last major forest type is Red Oak with associated species being White Pine and Red Maple.

Excluding pure stands of Red Alder (Alnus rubra) seven additional forest cover types have been identified. Most are variations of the predominant types resulting from varying percentages of the associated species. The relative abundance of associated species varies depending on crown closure, soil moisture content, slope and aspect, historical land use and related factors.

Other species present in most of the forest types are: Gray Birch (Betula populifolia), Quaking Aspen (Populus tremuloides), Basswood (Tilia americana), Butternut (Juglans cinerea), Black Cherry (Prunus serotina), Yellow Birch (Betula alleghaneinsis), Paper Birch (Betula papyrifera) and Sugar Maple (Acersaccharum). In general, most of the land of Blackwater Dam and Reservoir is in forest cover of White Pine, Red Oak, and Hemlock types.

Wildlife

The Contoocook and Piscataquog Rivers are stocked annually by the New Hampshire Fish and Game Department with brook, brown and rainbow trout. There is high fishing pressure on the rivers.

The Flood Control Reservoir is considered very good habitat for such species as whitetail deer, ruffed grouse, woodcock, snowshoe hare, grey squirrel and pheasant. Occasionally, a bear is found in the area. Waterfowl do breed in the reservoir area. Black duck, wood duck, hooded merganser, and some mallard are the main species present. In general, there is moderate to heavy hunting pressure for all species.

Fur-bearing species in the vicinity include beaver, mink, otter, fisher, muskrat, raccoon, and red fox. Trapping in the reservoir area is primarily for beaver, mink and muskrat.

SECTION 4. RESOURCES MANAGEMENT

Management Policy Statement

Management of the Hopkinton-Everett Flood Control Reservoir resources on a multiple use basis will provide the greatest benefits to the largest number of persons possible.

The multiple use concept involves a combination of uses of the land in such a way that full utilization is realized consistent with managerial goals and objectives. This presupposes that several uses will be combined in such a manner so that they are complementary and also attainable.

In adopting multiple use to an area, such as the Hopkinton-Everett Flood Control Reservoir, it involves two major steps before it can be properly applied to the land. The first step requires a statement of goals for the protection, development and utilization of each resource. The second step involves the defining of the land management objectives in order to meet or make the goals attainable.

Once objectives of land management are defined, the techniques of using individual resources in a manner complementary to each other come into play. If all resources can be used to a maximum without conflicts, the ultimate is obtained. However, such full use isn't usually attainable. When uses are competitive they just don't fit together easily.

Conflicts between uses may arise, such as between management of the forest for recreation and timber production, between wildlife management and timber production, and between recreation and wildlife management. These are only a few examples which can be multiplied many times with each combination of resources presenting its own particular problems and solutions.

In applying multiple use to the Hopkinton-Everett Flood Control Reservoirs, careful planning of all resource uses must be carried out in such a way that overall goals and objectives are attained. These goals and objectives are best fulfilled by assuring that the contribution from any combination of resource uses is greater than from any single use.

Management of the Hopkinton-Everett Flood Control Reservoirs will be consistent with the goals and objectives as expressed in the Master Plan and will be coordinated with other state resource agencies.

Area Definition

Natural resources cannot be narrowly defined or limited by area boundaries. Every part of a forest has aesthetic values. Water resources can be affected by activities anywhere between the stream and the ridge top. The food source or cover for some species of wildlife will be affected for better or worse by timber cutting anywhere on the forest.

However, we can define key areas which are vital to the development, preservation or utilization of a given resource. The following resource areas will be recognized in inventory and management work on the Flood Control Areas. In each resource area the title use will be the dominant use, but other uses may be permitted under situations and limitations which will not impair the area for its dominant use.

.Scenic Areas

Scenic areas are those in which aesthetic considerations come first. These areas are primarily adjacent to public travel routes such as roads, trails, and navigable streams. Mountain tops and upper slopes are also included in because they are visible from greater distances.

.Water Resource Areas

Water resource areas consist of strips along the shores of streams, ponds, and marshes which vary in width with the size of the water body and the slope and soil type on the area.

.Natural Reserve Areas

Natural reserve areas are those which contain (a) unique geological features and/or (b) unique plant communities which will not change their composition in a relatively short time in the natural course of plant succession.

.Wildlife Areas

Wildlife areas are those which include key sources of wildlife food and cover. This will include water areas for waterfowl and aquatic animals.

.Historical Areas

Historical areas are those which contain man-made features such as old building sites, cemeteries, mines, and roads of archeological or historical interest.

.Recreation Areas

Recreation areas are those in a forest area that have some identified recreation use passive in nature such as a trail of any type, primitive campsites where allowed, identified natural springs in use and areas known to be heavily used by the public for recreation purposes.

.Timber Management Areas

Timber management areas will consist of all lands not included in the above categories.

Area Management Policies

.Scenic Areas

These areas will be managed for the preservation and improvement of their aesthetic qualities. In most instances, the roadside and trailside strips will be left undisturbed. However, limited timber cutting which will improve the aesthetic qualities will be permitted, for example: (a) removal of dead or diseased trees, (b) single tree or group selection cutting which will give variety to the scene by creating irregular margins and giving more variety in plant size and species, and (c) small clear cuts to open vistas.

.Water Resource Areas

These areas will be managed to preserve and/or improve water quality by (a) providing shade to keep water temperatures low, (b) protecting stream banks from erosion, (c) providing a buffer zone for retention of soil sediments which might otherwise enter the stream, and (d) providing unobstructed access to waterbodies for fishermen and hikers.

.Natural Reserve Areas

The only projects permitted in these areas will be construction of basic access facilities such as trails, foot bridges, and signs.

.Wildlife Areas

Management practices in wildlife areas will be designed to maintain or establish preferred food and/or cover plants. This objective may be accomplished by (a) modification of timber sale marking practices such as favoring mast and den trees, (b) dispersal of sale areas and adjustment of sale schedules to provide the desired resources at the optimum place and time, and (c) non-commercial projects specifically designed to improve wildlife habitat. The management objective in these areas will be the maintenance of a variety of wildlife at optimum levels of population.

Access to state forests for hunting and fishing will not be restricted except in times of unusual fire danger.

.Historical Areas

These areas will be managed to preserve the historical features. Basic access will be provided as in the natural areas. Clearing may be required to prevent deterioration of the site. Signs identifying the features may be erected.

.Recreation Areas

All forest practices will be tailored to protect or enhance the identified recreation use. Trails will be left unobstructed and special care will be taken in regard to slash within sight of the trail. (See scenic areas)

Primitive campsites and springs will be protected from cutting except for dead trees or hazard trees.

Management practices on areas of known heavy public use will require greater emphasis on slash treatment. Aesthetic considerations will be accentuated in these areas.

.Timber Management Areas

Timber management areas will be managed for a sustained yield of timber products. Silvicultural practices applicable to a given stand will be used, but the system will be modified if its application will result in serious impairment of other resources. Marking practices will favor mixed stands. Slash lopping will be required on timber sales in order to reduce fire hazard and improve scenic quality. Logging operations will be conducted in a manner which will protect all resources. Areas with steep slopes and thin soils not suited to a sustained yield of timber crops will not be logged. Timber stand improvement work will be restricted to the better sites. Approved biodegradable herbicides may be used in target type application to selected stems in the timber management areas.

Management Goals, Situation and Objectives

.Wildlife

Goal: To maintain and improve the habitat for all species of furred, feathered, and finned wildlife on the Hopkinton-Everett Flood Control Reservoir.

Situation:

A. The Piscataquog and Contoocook Rivers are stocked annually by the New Hampshire Fish and Game Department with brook, brown, and rainbow trout. There is high fishing pressure on the rivers.

B. Reservoir area is considered very good habitat for such species as whitetail deer, ruffed grouse, woodcock, snowshoe hare, grey squirrel and pheasant. Occasionally, a bear is found in the area.

C. Waterfowl do breed in the reservoir area. Black duck, wood duck, hooded merganser, and some mallard are the main species. In general, there is moderate to heavy hunting pressure for all species.

D. Fur bearing species in the vicinity include beaver, mink, otter, fisher, muskrat, raccoon, and red fox. Trapping in the reservoir area is primarily for beaver, mink, and muskrat.

E. Periodic flooding causes some mortality to certain fur bearing species and upland birds and mammals during the breeding season.

F. There are approximately 1000 acres of open land within the reservoir area. Substantial proportions of all forest wildlife are "edge dwellers", who benefit from the existence of an edge between forest and nonforest.

G. Wildlife management involves a great deal of cost, but makes no monetary return to forest management.

Degree of Physcial Compatibility of Secondary with Primary Forest Uses

Primary Use	Aesthetics	Recreation	Wildlife	Soil & Water	Timber
Aesthetics		Moderate; may limit intensity of use	Compatible to most wildlife	Fully compatible	Limited compatibility affects amount of harvest
Recreation	Moderate unless use is excessive		Highly compatible	Fully compatible	Limited compatibility; Timing and intensity
Wildlife	General compatibility	Limited compatibility; use intensity must be limited		Generally fully compatible	General compatibility; may limit volume or condition of harvest
Soil and Water	Fully compatible	Moderate compatibility; may limit intensity	General compatibility		Moderate compatibility; restricts harvest methods does not prevent timber harvest
Timber	Compatible if harvest methods strictly controlled	Moderate compatibility	Compatible if harvest methods fully controlled	Compatible if harvest methods fully controlled	

Objectives:

A. Coordinate a wildlife management program with the New Hampshire Fish and Game Department. This could be accomplished through manipulation of vegetative cover so as to improve food, cover, and nesting sites for protecting and favoring the growth of certain wildlife populations.

B. Determine with the cooperation of the New Hampshire Fish and Game Department if and where rare and endangered species are located within the reservoir, so as to maintain special habitat requirements for them.

C. Care to be taken when organizing forest activities in the vicinity of a well defined and heavily used wildlife habitat.

1. Certain recreational activities, such as snow machine trails and cross country skiing trails will be established away from deer wintering yards.

2. Silvicultural treatments will take into consideration kinds of wildlife to be affected.

3. Timber harvesting will utilize individual areas of between 50 and 100 acres wherever possible.

4. Timber harvesting operations are to be conducted so as to maintain existing water temperature (streamside or riverside cutting) and water quality (erosion control).

5. Timber harvesting will be conducted in such a way as to produce the largest and most variable amount of edge effect possible.

D. Wildlife considerations must be more deeply ingrained into the planning and the management of the forest.

Recreation:

Goal:

To provide and maintain somewhat passive program of recreational opportunities for local residents and visitors to the Hopkinton Everett Flood Control Reservoir.

Situation:

A. A Corps managed picnic area with both house and beach is located in the Elm Brook flowage and Clough State Park is located adjacent to the Everett dam.

B. There are approximately 30 miles of snow mobile trails that are marked within the reservoir area. These trails can be utilized for hiking, cross country skiing, and snowmobiling.

C. There are four river access points in the Hopkinton reservoir: Elm Brook flowage (2), Contoocook River (1), and Drew Lake (1). At Clough Park there is a boat access point to the lake.

Objectives:

A. Maintenance of trails by utilizing temporary labor when available.

B. Improvement of river access points along the Contoocook and Piscataquog Rivers for boats and canoes to facilitate better access and parking.

C. Removal of debris from river to provide continuous flow for boats and canoes with use of available temporary labor.

Fire Protection

Goal:

To prevent and control man-caused and naturally caused wildfires in the Hopkinton-Everett Flood Control Reservoir where a variety of very valuable natural resources would be damaged or destroyed.

Situation:

A. Fire protection is a first requirement in establishing a good multiple use forest program.

B. Intensive forest management cannot be practiced unless there is reasonable assurance that plans will not be disrupted by fire.

C. High potential for fire exists within the reservoir area.

1. Hardwoods make up a majority of the timber types located in the reservoir area.

2. Periodic flooding produces many dead trees of high fire hazard.

3. Accessibility to the area has a negative point in allowing for more man caused fires.

Objectives:

A. Coordinate a program of prevention, preparedness, and suppression with the New Hampshire State Forest Fire Service.

B. Restriction of forest activities during period of high fire danger.

C. Maintenance of road and trail access to reservoir area for the purpose of supplying accessibility for fire fighting equipment. Accessibility has positive point for this purpose.

Soil and Water

Goal:

To maintain and improve a continuous flow of high quality water and to conserve the soil in the Hopkinton-Everett Flood Control Reservoir.

Situation:

A. Principal uses of the water in the reservoir area are for a few recreational activities which include: Canoeing, fishing, and waterfowl hunting.

B. There is an ever-present possibility of bank erosion and mortality to trees is flooding and backup water occurs within the reservoir area.

Objectives:

A. Consult with the Agricultural Stabilization and Conservation Service (ASCS) pertaining to forest activities that might effect the quality and quantity of water flow or damage the soil resource.

B. Coordinate a program with the ASCS, SCS, and the Corps of Engineers to monitor the effect of various forest activities on the quality and quantity of water flow and damage to the soil resource on a yearly basis.

C. In order to conserve soil and water supplies, there must be some development of constraints on incompatible forest activities.

1. Careful planning of all future road systems within the reservoir area.

2. Maximum grades of 10% on any road.

3. Protective strips of absorbent, undisturbed forest soil between any roads and streams or rivers. Minimum distance of 100 feet is recommended between roads and streams or rivers.

4. Placement of culverts and/or waterbars along roads to control water flow.

5. Bridge construction whenever stream crossing is essential.

6. Continuous maintenance program to control road erosion and to provide access to forest stands.

7. Regulation of traffic on certain roads during unfavorable road or weather conditions.

Roads

Goal:

To maintain and improve access to the Hopkinton-Everett Flood Control Reservoir for the purpose of developing, protecting, and utilizing the natural resources that are available.

Situation:

A. There are three major highway bridges in the area. One each crossing the Contoocook River, Elm Brook and Choate Brook.

B. There are four types of roads that have been developed within the reservoir area with a total of 27 miles.

1. Class A - Paved -- All purpose

2. Class B -- Gravel -- All purpose

3. Class C -- Gravel -- Restricted use -- Light Duty vehicles

4. Class D -- Non Gravel -- Restricted use -- 4-wheel-drive vehicles

C. East Weare Dam section:

The road pattern in this area is more unified than the other two sections

of the reservoir. Former Rt 77 travesses the area from East to West, and Riverdale Road and Bassett Mill road extend from the South at Everett Dam northward to the end of Canal Number 2. This unified road pattern, including the roads leading to the above two main roads are utilized because it does enable general circulation.

D. Elm Brook section:

The road pattern in this section is fragmented. The main highway is the East-West, high speed limited access. US Rt 202. Elm Brook pool floods several former through roads which reduces any general circulation road use pattern in the area. The main north-south road is Stumpfield-Mudgett Road.

E. Henniker Section:

Only two main roads are located here. US 202 parallels the Contoocook River on the North. On the south side RT 114 parallels the river and at River Road extends southward into the reservoir area.

Objectives:

A. All Class C and D roads will be maintained by the licensee in the same or better condition than they are at the present time.

B. All skid roads and truck roads established for the purpose of removing timber products will be maintained as Class D.

C. Culverts and waterbars will be utilized to prevent erosion on all Class C and D roads.

D. Maintenance of all roads will be done on a contract basis and/or with available temporary labor.

Refuse

Goal:

To provide and maintain a refuse removal program for the Hopkinton-Everett Flood Control Reservoir so as to preserve, protect, and improve its attractive and healthful environment.

Situation:

A. Refuse barrels are located at Elm Brook recreational area, Clough State Park and all boat launching points.

B. Federal and State employees empty the refuse barrels and dispose of the refuse in the local sanitary land fill.

Objective:

A. Continued use of Federal and State employees for disposal of refuse.

B. Use of temporary summer employees for roadside litter.

Amenities

Goal:

To preserve, protect, and improve conditions within the Hopkinton-Everett Flood Control Reservoir, which possesses remarkable scenic, recreational, geologic, historic, cultural or Similar values, so that present and future generations can enjoy the benefits.

Situation:

A. Increasing pressures are developing from the non-forest land owning public for aesthetic enjoyment of the public forests.

B. Increasing concern pertaining to the relationship between commercial timber production and the other multiple-use values including forest aesthetics.

Objectives:

A. Enchancing aesthetic qualities of the landscape by developing vistas and emphasizing desirable topographic features of the area by either creating or utilizing existing openings in the forest.

B. Protecting woodlands from uncontrolled fires by developing a good fire program with the assistance of the New Hampshire State Forest Fire Service.

C. Performing light harvest cutting operations which leave the forest intact, but improves its quality.

D. Utilization of all material possible from harvesting operations.

1. Utilization to minimum top diameter of 4 inches.

2. Utilization of all hardwood in a firewood program.

E. Protecting the uncut trees, seedlings and other reproduction by careful felling, skidding, and hauling practices.

F. Protecting the site against erosion by proper extractive methods including well planned skid and haul road layout, adequate water drainage facilities, and restriction on vehicles to be utilized.

G. Cutting logging slash and severely damaged trees to lie close to the ground after harvesting operations. Adhering to state laws on harvesting will cover this.

Law Enforcement

Goal:

To provide and maintain an active law enforcement program within the Hopkinton-Everett Flood Control Reservoir so as to protect the natural resources as well as local residents and visitors to the area.

Situation:

A. Reservoir area is open during daylight hours only, but nighttime activities, which are illegal, are present.

1. The Rt 77, Choat Brook area is one of major concern to local residents.

2. Littering is somewhat of a problem throughout most of the reservoir area.

B. Illegal cutting of trees has become a problem in recent years.

C. Illegal disposing of housing refuse is increasing.

Objectives:

A. Coordinating a program for law enforcement coverage of the Hopkinton-Everett Flood Control Reservoir with the Department of Safety, local law enforcement officials and Fish and Game Department.

B. Reestablish gates across the entrances of access roads as needed into the reservoir area. This will provide access for management and fire protection purposes, but will eliminate unauthorized vehicle use by the general public.

Timber

Goal:

To provide a sustained yield flow of forest products from the Hopkinton-Everett Flood Control Reservoir, for economic and social purposes, consistent with maintenance of environmental and quality harvesting standards.

Situation:

A. A moderate volume of sawtimber material is available to be harvested. See Merchantable Timber Volume Summary Section 11, page 11-15.

1. Approximately five (5) million board feet of marketable hardwood sawtimber is present.

2. Approximately twenty seven (27) million board feet of marketable softwood sawtimber is present.

B. The allowable cut of marketable forest products has not been accurately determined.

1. Growth figures of forest stands are not available.

2. An accurate measurement of natural mortality has not been made.

C. Flooding during the growing season is potentially harmful to forest stands throughout the Reservoir area.

D. A forest inventory was conducted in 1979 and 1980.

1. Species composition (overstory, understory, and reproduction)

2. Volumes of merchantable material

3. Density and distribution of vegetation

4. Site conditions

5. Recommendations for treatment of individual forest stands

E. A very adequate road system throughout the reservoir area is conducive for the removal of forest products.

F. Large acreage of forest land is in need of some type of silvicultural treatment. See Silvicultural Treatment Summary Section 11, page 11-40.

Objectives:

A. Determination of sustainable cut for marketable forest products.

1. Determine annual growth, mortality, and sawtimber volume presently available to assess forest conditions for proper sustained yield decisions.

B. Forest stands immediately adjacent to the Contoocook and Piscataquog Rivers will require special attention.

1. Establishment of reproduction will have to be through natural regeneration because of the potential of loss from flooding.

2. Harvesting operations will be conducted so as to prevent debris and siltation from polluting the river.

3. Use of chemicals will be restricted or prohibited.

4. Mature sawtimber will be removed on an earlier schedule than normal to prevent mature and over-mature trees from being lost to flooding.

5. Sanitation cuttings in younger forest stands will be conducted on a more frequent schedule than those of upland forest stands.

a. Prevent debris from entering river.

b. Create an aesthetically pleasing environment.

C. Forest stands with high priorities for silvicultural treatments will be scheduled ahead of those with medium priorities.

D. Forest inventory to be conducted every ten (10) to fifteen (15) years.

E. Boundary lines to be blazed and painted every ten (10) years or sooner depending on need for maintenance.

F. Road system throughout the reservoir area will be maintained at the same or better level than it exists at the present time.

1. Revenue from commercial harvesting operations will be utilized to finance all forest activities.

G. Revenue from commercial harvesting operations will be utilized to finance all forest activities.

1. Road maintenance

2. Timber stand improvement work

3. Forest inventories

4. Boundary line maintenance

5. Forest fire protection

H. All silvicultural treatments conducted within the flood control reservoir will be coordinated with all other forest uses so as to provide the greatest number of benefits to the largest number of persons possible.

I. There will be no significant changes in our forest management planning process because of the potential of flooding. The overall effect of flooding to the forest resources has been negligible in the past.

SECTION 5. FOREST MANAGEMENT

Existing Management

Introduction

The State of New Hampshire had been contributing forest protection services to the Corps of Engineers in the Hopkinton-Everett Flood Control Area, most notably forest fire protection and blister rust control, prior to 1951, then State Forester William Messeck, Jr. requested that the State assume forest management responsibility of the area.

In July, 1953, Governor Hugh Gregg designated the New Hampshire Forestry and Recreation Commission as the State agency to assume management responsibility pending U.S. Army Corps of Engineers' concurrence.

In December 1964, a license was issued by the U.S. Army Corps of Engineers to the State of New Hampshire Forestry and Recreation Commission for recreation, fish and wildlife, forestry, and other management uses for a 25-year period expiring in December, 1989. A forest resource management program was immediately initiated within the limitation of available personnel and funds.

Enactment of RSA 219:26 by the New Hampshire Legislature in 1961, designated the New Hampshire Forestry and Recreation Commission as the management agency of federal forest land in New Hampshire in accordance with proper agreement with the federal government pursuant to the so-called Fulmer Act (H.R. 6914).

Forest Inventory

During the summer months of 1979 and 1980 a forest inventory cruise of the Hopkinton-Everett Reservoir was conducted as a joint effort between the U.S. Army Corps of Engineers and the State of New Hampshire Department of Resources and Economic Development.

The project was divided into compartments and then subdivided into workable units called stands. Data was collected on cruise cards which record: tract, compartment, timber type, slope, exposure, bottom, quality, stocking, insect damage, overstory species, size class, exposure, soil, timber quality, disease, understory species, point number, species, DBH, cruiser, and date.

From the data cards, merchantable timber volume in board feet for both hardwood and softwood as well as average volume of board feet per acre was derived. Other computations included average DBH, average log height, percent of stand, estimated board foot volume per acre and estimated stand board foot volume for each species in each stand for each compartment. Data sheets and field notes are on file at the Merrimack River Basin Office.

Reproduction is generally good with major species being White Pine, Northern Red Oak, Red Maple, and Eastern Hemlock. Ground cover consists of forest litter with various mosses and ferns forming the herbaceous component. An adequate duff layer (average depth varies from 0 - 3 inches) is present in most locations to retain moisture and protect the mineral soil.

Forest Compartments

The entire Hopkinton-Everett project is divided into seventeen compartments. The parameters used to determine the boundaries are ease of access, econogical types, geographic features, and Corps boundaries.

Everett Portion

Compartment 1 - Consists of 385.0 acres. The boundaries are the Corps boundary to the North and South, the Piscataquog River to the West and the Barnard Hill Road to the East. The compartment has a gentle to moderate slope and contains some open land leased for agricultural purposes.

Compartment 2 - Consists of 330.0 acres. The compartment boundaries are Everett Lake to the East with the Corps boundary, the Barnard and Sugar Hill Road to the West; the Bassett Mill and Cilley Hill Road in the North with the Corps boundary to the South. This compartment is generally level with marsh areas along the Piscataquog river.

Compartment 3 - Consists of 342.0 acres. The boundaries are Bassett and Alexander Road in the North to the Everett Dam in the South; the Everett Lake in the West to the Corps boundary in the East. The compartment has a mild slope and contains Clough State Park.

Compartment 4 - Consists of 279.0 acres. The boundaries are the Alexander Road in the South to Mansion Road in the North; Old Rt 77 in the West to the Corps boundary in the East. This compartment has a mild slope with many marshes around Stark Brook.

Compartment 5 - Consists of 335.0 acres. The boundaries are the Sewell Hoyte Road in the North to Old Rt 77 in the South; Old Rt 77 in the East to Bassett Mill Road in the West. This compartment has a gentle to moderate slope.

Compartment 6 - Consists of 245.0 acres. The boundaries are the Cross Road in the North to Old Rt 77 and the Cilley Hill Road in the South with the Corps boundary in the West to the Bassett Mill Road in the East. This compartment has a moderate slope and contains many shrub swamps along Choate Brook.

Compartment 7 - Consists of 452.0 acres. The boundaries are the Sewell Hoyte Road in the South to New Rt 77 in the North, with the Corps boundary in the West to the Corps boundary and the Roy Road in the East. This area has a mild slope with many shrub swamps around Choate Brook.

Compartment 8 - Consists of 654.0 acres. The boundaries are Roy Road and the Corps boundary in the East to the Corps boundary in the West; The Winslow Road in the South to the Corps boundary in the North. The area has a moderate slope and 25% is composed of Dikes P-1 and P-2 and Stark Pond.

Hopkinton Portion

Compartment 1 - Consists of 373.3 acres. The boundaries are New Rt 77 in the South with Sugar Hill Road and the Corps boundary to the North; Bassett Mill Road to the West and the Corps boundary on the East. Sixty percent of this area is composed of Drew Lake and a canal leading South out of Drew Lake.

Compartment 2 - Consists of 355 acres. The boundaries are Rt 9 and US 202 to the North, with the Corps boundary and the Sugar Hill Road in the South, and the Corp boundary on the East and West. Ninty percent of this compartment is open water flowing southeast into Drew Lake.

Compartment 3 - Consists of 564.0 acres. The boundaries are Rt 9 and US 202 to the North with the Corps boundary to the South. The Corps boundary and Thain Road to the West and the Corps boundary; Thain Road and Stumpfield Road to the East. The compartment has a mild slope and 40% consists of open water and marsh.

Compartment 4 - Consists of 756.2 acres and the boundaries are Rt 9 and US 202 in the South with the Corps boundary to the North; Stumpfield Road to the West and I 89 to the East. The compartment has a moderate slope and contains many interior roads.

Compartment 5 - Consists of 841.0 acres. The boundaries are Rt 9 and US 202 in the South to the Corps boundary in the North; Kast Hill Road and the Corps boundary in the West to Stumpfield Road in the East. Eighty percent of this compartment consists of the Hopkinton Dam, Contoocook River, Dike H-2, Hopkinton reservoir, and Elm Brook recreation area.

Compartment 6 - Consists of 261.9 acres. The boundaries are the Contoocook River to the South, East, and West and the Corps boundary to the North. This compartment contains many areas leased out for agricultural purposes.

Compartment 7 - Consists of 362.0 acres. The boundaries are the Contoocook River in the North and West, the Corps boundary and River Road to the South, and the Corps boundary in the East. This compartment has a gentle to moderate slope.

Compartment 8 - Consists of 463.0 acres. The boundaries being Town Road in the North and the Corps boundary to the East, South, and West. There are numerous marsh areas found around Mud Pond, Hill Brook, and Craney Hill Brook.

Compartment 9 - Consists of 676.0 acres. The boundaries are Franklin Pierce Highway and the Corps boundary in the North to Route 114 in the South, the Corps boundary in the West and The Contoocook River in the East. Thirty percent of this compartment is leased for agricultural purposes.

Factors Influencing Forest Management

Forest Fire Prevention and Suppression Plan

The Hopkinton-Everett Flood Control Area comprises 8,800 acres of land area. This area is located within three fire districts of the Division of Forests and Lands and four towns. Access to the area is readily available via old town roads and all terrain vehicle trails creating a high risk of forest fires. Forest fire protection is provided jointly by the Division of Forests and Lands and the fire departments in the towns of Weare, Dunbarton, Hopkinton and Henniker.

Fire prevention is carried out in two ways. Public education through the use of mass media and posting of fire prevention posters, and law enforcement utilizing periodic patrol of heavily used areas to detect illegal camp and debris burning fires.

Articles are placed in local newspapers several times a year informing the public about the forest fire danger. As the danger increases the frequency of these articles increases. In addition, radio stations are utilized to broadcast fire prevention messages.

Annual posting of forest fire prevention signs, supplied by the Division of Forests and Lands to local forest fire wardens, is encouraged. These posters are located at places where the public recreates and at access roads by the public to gain entrance to woodlands in the flood control area.

When the forest fire danger reaches a level requiring a partial or total woodland closure, posters stating the situation will be placed at each point of entry to the flood control area.

Periodic mobile patrol will be made through the flood control area to be sure that the provisions of the closure proclamation are followed. These patrols to be made by local and State Forest Fire personnel.

All requests for forest fire permits must be made to the forest fire warden having jurisdiction of the area in which the fire is to be kindled.

Fire permits for camp fires shall not be issued without a letter from the Director, Division of Forests and Lands approving the request for a camp fire.

Detection and reporting of a forest fire on flood control property will come from one of three sources:

1. Public - Through the use of mass media public awareness of forest fires has increased. Because of this awareness, between 40 and 50 percent of all forest fire starts throughout our State are reported by the public.

   The flood control area is no exception to this fact. As most of the area is surrounded by land that is higher in elevation, citizens are able to observe a smoke readily. This fact could increase the percent of fires reported in this manner.

2. Fire Towers - The Division of Forests and Lands maintains three fire towers that look into the flood control area. Craney Hill in Henniker has an unobstructed view of the entire area. Oak Hill to the east and Uncanoonuc Mt. to the south have good visibility of the area.

3. Aerial Patrol - The northern leg of air patrol route number one crosses directly over the flood control area. As the forest fire danger rises aircrafts fly this route to assist the fire towers in detecting forest fires.

Initial attack of all grass, brush and forest fires that occur within flood control boundaries will be handled by the fire department and forest fire warden of the town in which the fire occurs. The local warden shall immediately notify the appropriate district fire chief of the Division of Forests and Lands.

If additional manpower and equipment are required to gain control of the fire, the town forest fire warden may call for such assistance as he deems necessary. Aid will come from city and town fire departments that are in mutual aid agreement with the responsible town. If more aid is required, the warden may ask the district chief to request help from the Northeast Forest Fire Protection Commission.

All fire suppression costs will be paid in the first instance by the town in which the fire occurs. Upon investigation of the fire cause, if a responsible person can be found then that person, or persons, shall be billed for all costs related to that fire by the town.

If no responsible person can be found, then the town shall send a bill on appropriate form to the Division of Forests and Lands. Once the bill is approved by the State Forester, then a check for on-half of suppression costs shall be sent to the town.

The District Fire Chief shall review forest fire suppression plans with forest fire wardens that are responsible for suppression action within flood control boundaries.

This review shall include a check on available resources, as listed in the appendix of this plan; inspection of forest fire hazards, such as recent timber sales to pre-plan suppression tactics; inspection of access roads and water sources; and other items that will aid in forest fire suppression. This review shall be completed once every two years.

Forest Insect and Disease Management

The goal of forest insect and disease management for the Hopkinton-Everett Flood Control Area is to protect the forested areas and associated resource values from losses caused by insect or tree disease agents.

Past accomplishments of the Division of Forests and Lands White Pine Blister Rust Program have placed this entire area into a low hazard blister rust condition and can be expected to cause no economic losses during the foreseeable future. Past levels of air pollution damage to white pine has greatly lessened during the last three years but remains a diseased condition which requires surveillance. The general prevalence of white pine weevil continues to remain a persistent drain on white pine potentials because of growth loss and degrade caused by this insect.

Implementation of silvicultural controls to reduce weevil damage and harvesting techniques which favor air pollution resistant white pines will be done in future management plans. Periodic general surveillance and pest surveys by this Department coordinated with Corps of Engineers will be done to detect any new potential pest problems.

Continued general surveillance and pest detection surveys will be done by this Department to detect new potential forest pest problems and provide assurance that old problems do not get out of hand due to changing conditions within the present forested areas.

Effects of Inundation on Forest Stands

Mortality rates are highest when impoundments occur during the growing season. Those which occur in late fall, winter, or early spring are generally not harmful to trees if physical damage does not result. The primary cause of mortality is damage to root structures and siltation on leaf parts which upset normal transpiration and photosynthesis. Defoliation is a frequent result. Coniferous species generally suffer a higher mortality rate because deciduous species can more often tolerate defoliation.

As a result of mortality from flooding, the cover type adjacent to the pools where flooding is most frequent is changing from forest to open land, or in some cases, to a more flood-tolerant species than was originally present. The effect on vegetation of inundation caused by the regulation and impoundment of water at six New England flood control reservoirs during the June - July 1973 flood was assessed from color infrared photography and cooroborative ground surveys. The results are contained in the U.S. Army Cold Regions Research and Engineering Laboratory's (CRREL) Special Report 220, Inundation Damage to Vegetation at Selected New England Flood Control Reservoirs, dated March 1975.

Short Range Management Plan

Short range work is listed in the Five Year Work Plan. See section 10, page 10-1.

Long Range Management

The primarily long-range plan is to wisely utilize and protect the forest resource at Hopkinton-Everett Reservoir, and to review forest management efforts every five years.

SECTION 6. FISHERIES MANAGEMENT

Existing Management

Present fisheries management is being conducted by the New Hampshire Fish and Game Department. See complete list of fish species found in Hopkinton-Everett Reservoir Section , page . Annual stocking of Contoocook and Piscataquog Rivers includes species of trout: Brook Trout (*Salvelinus fontinalis*) and Rainbow Trout (*Salmo gairdneri*). Numbers of fish released varies according to the area and the availability of stock from the hatcheries.

Factors Influencing the Management of Fish Species

Habitat and Level Fluctuations

Extreme seasonal fluctuations of water level affect cover shelter and reproduction habitat. While yearly water level fluctuations do not eliminate entire populations, they may decrease numbers considerably.

Habitat types which may be found include: fallen timber and brush, old snags, rocky and sandy bottoms, underwater caves and aquatic weed beds. All may be influenced by swift currents, slow to moderate currents or still waters.

Pesticide Use

The principle pesticieds which have been used in the project area have been: Simazine, for treating rock embankments of the dam, and 2, 4, D for broadleaf plants and brush. When applied using Environmental Protection Agency regulations, these chemicals have limited effects on aquatic vegetation and fish species. 2.4.5-T, which has not been used since 1971, has since been suspended by E.P.A. for all uses. Although the effects of pesticide use at the project are almost non-existent, other effects from local resident use and run-off from private properties will be studies more closely.

Public Pressure

Access to all portions of the Contoocook and Piscataquog Rivers are good. Fishing pressure is light and has little or no effect outside the fishing season. Fishing pressure is moderate to heavy after New Hampshire Fish and Game Department stocks the rivers, but it tapers off rapidly.

A creel census should be undertaken to reveal any other uses which should be considered in the management plan.

Boat travel on the river is light, with canoes being the predominant craft.

Short Range Management

A creel census will be undertaken to determine angler and public utilization and interest in the Contoocook and Piscataquog Rivers. Census data will assist managers in determining the adequacy or necessity of the existing program. A survey of this type will reveal the most intensive fishing periods, types of fish sought, length of time spent fishing, angler origin, type of gear used, and size and number of fish taken. Running throughout the four seasons, the census will begin immediately after the public is made aware that stocked fish have been put into this area. The creel census should be continued for several years; however, this decision will be made after the first

year is completed.

Deadfalls should be cleared out and boat launch areas improved for easier access by fishermen.

A study of artificial habitats for trout will be made. Often time artificial nesting structures provide critical cover which improve survival and reproduction of the species.

Long Range Management

The stocking program will be reassessed in light of results from the creel census, mapping of habitat types present and conditions and requirements of various species in the Contoocook and Piscataquog Rivers.

SECTION 7. WILDLIFE MANAGEMENT

Existing Management

The Hopkinton-Everett Reservoir is generally considered good game habitat. The species present include, in order of importance: white-tailed deer, ruffed grouse, snowshoe hare, woodcock, waterfowl, and grey squirrel. In addition, there are numerous furbearers which inhabit the basin including beaver, muskrat, mink, otter, fisher, raccoon, skunk, fox, bobcat, and weasels.

Hunting pressure on this public area is considered moderate and the wildlife resources are considered in balance at the present time.

New Hampshire game laws are enforced by Conservation Officers. Pheasant stocking and hunting exist on a put-and-take basis. A deer population is present but no survey as to the size has been undertaken.

Waterfowl do breed in the area and the species most often found are Wood Duck (Aix sponsa), Hooded Merganser (Lophodytes cucullatus), and Black Duck (Anas rubripes). There is moderate hunting pressure on all species. Although a waterfowl census has not been conducted, managers believe that populations probably include representatives of all native species at one time of the year or another.

Moose and bear have been reported in the area, but probably occur only as occasional migrants.

New Hampshire Fish and Game Department has issued trapping permits. Results of the trapping indicate that population levels of beaver, mink, otter, fisher, muskrat, raccoon, and red fox remain fairly constant. Drastic weather changes, forestry practices and individual population dynamics cause the major changes in population levels. A complete list of mammals found at Hopkinton-Everett is included in Section 11, page 11-3 and a partial list of birds is included in Section 11, page 11-4.

Factors Influencing Wildlife Management

Characteristics of the Reservoir Area

There are approximately 1,000 acres of open land at Hopkinton-Everett; a portion of that is leased for agriculture and grazing. Non-leased areas are in open field or old field growing up with brush and trees.

Hopkinton-Everett Reservoir land includes marshes, swamps, and wet meadows.

Though only a small portion of the total project land, these areas do provide a wetland environment for various waterfowl, mammal and plant species. Wetland types are defined as follows:

1. Marsh - significant area of open water, contains herbaceous materials; usually ringed with woody plants.

2. Wet Meadow - wet areas containing mostly grasses, sedges, rushes.

3. Swamps - wooded wetland; wet in spring, frequently dry in winter, often contain an undergrowth of herbaceous plants.

There is a diversity of wildlife habitat present at Hopkinton-Everett. The reservoir

includes different types of forest stands that are of different ages and are productive for a wide variety of wildlife. Through different forest management practices managers can promote one or more groups of wildlife.

Endangered, Threatened, and Rare Species

Those species listed in the Federal Register as "endangered" are eligible for benefits provided by the Endangered Species Conservation Act of 1973. "Threatened" species are also eligible for endangered species benefits. Under the same legislation, "special consideration" is given to those species which may not be threatened throughout their entire range in the United States but have declined significantly in a particular area such as New Hampshire.

Those endangered species which may pass through the Hopkinton-Everett Dam and Reservoir project are the Bald Eagle (Haliaeetus leucocephalus) and the American Peregrine Falcon (Falco peregrinus anatum).

Those threatened species which may be present or may pass through are the Southeastern Pine Grosbeak (Pinicola enucleator eschatosus), Eastern Pigeon Hawk (Falco columbarius), American Osprey (Pandion haliaetus carolinensis).

Those species of special concern include Common Loon (Gavia immer), Barn Owl (Tyto alba pruntticola), and Eastern Bluebird (Sialis sialiis) and New England Cottontail (Sylvilagus transittionalis).

Habitat Improvement

Habitat improvement should be considered wherever feasible. It will improve the quality and/or quantity of wildlife in the area. Several basic requirements or projects are listed below:

1. Fields should be kept open and free of invading trees.

2. Release and fertilization of apple trees.

3. Planting or release of mast-producing trees and fruit-bearing trees and shrubs next to or within wooded areas.

4. Slash generated from forest management practices should be gathered in piles to provide cover for small mammals and should not be left in streams.

5. Cavity trees within 1,000 feet of wetlands should be retained.

6. Food producers such as oak, beech, and black cherry should be favored and retained to rotational age.

7. Plantings of spruce for rabbit habitat in various areas.

Forest Management Effects on Wildlife

Forest management practices may affect wildlife populations through changes in habitat. Any extensive timber improvement practices and harvesting should be carefully planned to avoid adverse impacts on local wildlife.

Hunting Impact

During deer season there is moderate hunting pressure in various areas. The number of hunters for deer as well as other game species has increased and should be monitored closely.

Waterfowl hunting at Hopkinton-Everett has a minimal impact on migrating waterfowl species.

No hunter survey has been taken at Hopkinton-Everett to determine numbers of hunters, length of time spent hunting and number of game species observed. A survey will help future planning and possible habitat improvement.

Short Range Management Programs

Wood Duck Boxes

The wetlands at Hopkinton-Everett appear to offer much potential for waterfowl habitat. Additional wood duck boxes should be installed, in coordination with New Hampshire Fish and Game Department.

Food Plots

Included in agricultural lease agreements should be agricultural lease-holders leave portions of grain crops or grasses for wildlife food and habitat. This food source would be of particular benefit to recent restocking of wild turkey in the Hopkinton-Everett area, as well as native wildlife.

Specific Long Range Programs

Maintenance of Wildlife Resources

Maintain the present wildlife resources through planning, coordination, and enforcement, and in conjunction with forestry practices, try to improve upon existing habitat.

Furbearers and Other Game Species

Continue present management through controlled trapping and coordinated forest management practices.

Habitat

As funds become available, carry out management of wildlife openings by creation and maintenance, sub-impoundments constructed and continued monitoring of habitat resources.

Mapping of Wildlife and Vegetation Types

A complete vegetation type map that also shows wildlife use should be prepared and included with this plan prior to the next revision (five years). The maps will need periodic updating because of TSI, habitat improvement and timber harvests.

Education

Education of the public as to wildlife management activities at Hopkinton-Everett reservoir should be encouraged for a better understanding of total resource management. This can be accomplished through media, workshops and meetings for the public.

SECTION 8. RESEARCH NEEDS

Several areas of research are proposed which are necessary for sound ecological management of Hopkinton-Everett's natural resources.

Rare, Endangered, Threatened Species

Before intensive forest management activities are carried out, the operating areas will be examined for the presence of rare species, especially plants. Endangered species other than those mentioned in this plan may occur at Blackwater.

Effects of Inundation on Wildlife and Forest Tree Species

There is a need to understand the effects of inundation caused by present flood control operations and by possible future hydropower storage at Hopkinton-Everett to plan improvement practices, future stockings, tree plantings and other related wildlife and forestry operations.

Inventories

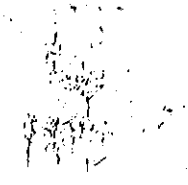
Before a five year revision of this plan is undertaken, a thorough review of the forest inventory data currently available will be made to determine whether additional data is needed. Included is establishment of forest growth plots for analysis of tree growth and mortality.

Subimpoundments

Potential subimpoundment sites for wetland enhancement within the reservoir should be identified and evaluated in a wet land inventory.

Acid Rain

The soils at Hopkinton-Everett as well as the entire Merrimack River Basin are vulnerable to decreases in pH due to the impact of airborne contaminants deposited by rain. The reservoir (and others) should be evaluated for possible long range monitoring activities in cooperation with Federal, State and other agencies.



SECTION 9. RECOMMENDATIONS FOR IMPLEMENTATION OF MANAGEMENT PLAN

A. Meet with all coordinating agencies having an interest in the management of the Hopkinton-Everett Flood Control Reservoir and review with them their plans for the area, pertaining specifically to their areas of expertise.

B. Review the most recent forest inventory.

C. Coordinate recommendations from forest inventory with those recommendations from coordinating agencies.

D. Develop five (5) year work plan. (Be specific)

   1. Harvesting operation: compartments, stands, acres, volumes, type of operation

   2. Timber stand improvement: compartments, stands, acres, type of operation

   3. Road maintenance: location, distances, treatment

   4. Boundary lines

   5. Refuse removal

   6. All other activities that might require planning and implementation

E. Schedule work program for immediate year

   1. Expenditures expected

   2. Revenue expected

   3. Personnel

F. Review accomplishments for immediate year

G. Update work plan annually

SECTION 10. FIVE YEAR WORK PLAN

Forest Management Work Plan

Harvest Improvement

1981	Compartment E5	Stand 8 (North)	400 MBF
1982	Compartment E7	Stand 11	150 MBF
1983	Compartment E5	Stand 32	80 MBF
1984	Compartment E5	Stand 8 (South)	400 MBF
1985	Compartment E5	Stand 31	75 MBF

Timber Stand Improvement

1981	Compartment E6	Stand 20, 12 (part)	40 Acres
1982	Compartment E6	Stand 14, 12 (part)	40 Acres
1983	Compartment E6	Stand 4, 11	20 Acres
1984	Compartment E5	Stand 9, 30, 31	40 Acres
1985	Compartment E5	Stand	40 Acres

E = Everett Portion
H = Hopkinton Portion

Fish and Wildlife Work Plan

Census

Census can be accomplished in conjunction with regular forestry activities. Most needed is location, extent and condition of special habitats - heer yards, fruit and nut-bearing trees, shrubs, aspen stands, wetlands, old fields, softwood thickets. These areas should receive special treatment beyond forestry programs.

Mapping of vegetation types will be undertaken as soon as possible. Mapping of wetlands (classifications) will be included. Wildlife census, survey or mappings should be reviewed and coordinated with the New Hampshire Fish and Game Department.

Food Plots, Habitat Improvements

Identify and map areas for possible improvements and prepare and investigate ways for proper utilization. Coordinate with New Hampshire Fish and Game Department.

Wood Duck Boxes (yearly activity)

Clean and replace boxes each year, adding new ones where needed.

Education (yearly activity)

Include fish and wildlife with forestry and other management disciplines when giving programs and dealing with the public.

SECTION 11. TABLES AND MAPS

Soils Found in Hopkinton-Everett

Agawam

Au Gres

Gloucester

Gravel Pits

Hinkley

Limerick

Made Land

Marsh

Merrimac

Mixed Alluvial Land

Muck & Peat

Ninigret

Ondawa

Paxton

Podunk

Ridgebury

River Wash

Rock Outcrop

Rumney

Scarboro

Shapleigh - Gloucester

Sudbury

Suncook

Windsor

Woodbridge

Mammals Occurring in the Project Area

Common Name	Scientific Name
Beaver	Castor canadensis
River Otter	Lutra canadensis
Fisher	Martes pennanti
Muskrat	Ondatra zibethica
Mink	Mustela vison
Red Fox	Vulpes fulva
Woodchuck	Marmota monax
Porcupine	Erethizon dorsatum
Eastern Chipmunk	Tamias striatus
Gray Squirrel	Sciurus carolinensis
Red Squirrel	Tamiasciurus hudsonicus
Southern Flying Squirrel	Glaucomys volans
Raccoon	Procyon loter
White-tailed Deer	Odocoileus virginianus
American Black Bear	Ursus americanus
Star-nosed Mole	Condylura cristata
Hairy-tailed Mole	Parascalops breweri
Common Shrew	Sorex cinereus
Little Brown Bat	Myotis lucifugus
Keen Myotis	Myotis keenii
Big Brown Bat	Eptesicus fuscus
Eastern Skunk	Mephitis mephitis
Moose	Alces alces
Deer Mouse	Peromysus mainiculatus
White-footed Mouse	Peromyscus leucopus
Field Mouse	Microtus pennsylvanicus
Southern Bog Lemming	Synaptomys cooperi

Partial List of Birds Found in Project Area
(including seasonal species)

Common Name	Scientific Name
Common Merganser	Mergus Merganser
Red-breasted Merganser	Mergus serrator
Common Goldeneye	Bucephala clangula
Bufflehead	Bucephala albeola
Canvasback	Aythya valisineria
Lesser Scaup	Aythya affinis
Wood Duck	Aix sponsa
Blue-winged Teal	Anas discors
Green-winged Teal	Anas carolinensis
American Widgeon	Mareca americana
Mallard	Anas platyrhynchos
Black Duck	Anas rubripes
Canada Goose	Branta canadensis
Snow Goose	Chen hyperborea
Marsh Hawk	Circus cayaneus
Goshawk	Accipiter gentilis
Red-tailed Hawk	Buteo jamaicensis
Broad-winged Hawk	Buteo playtpterus
Bald Eagle (visitor)	Haliaeetus leucocephalus
Peregrine Falcon	Falco peregrinus
Kestrel	Falco sparverius
Great Blue Heron	Ardea herodias
American Bittern	Botaurus lentiginosus
Great Horned Owl	Bubo virginianus
Saw-whet Owl	Aegolius acadicus
Mourning Dove	Zenaidura macroura
Common Crow	Corvus brachyrhynchos
Ring-Necked Pheasant (stocked)	Phasianus colchicus
Ruffed Grouse	Bonasa umbellus
American Woodcock	Philohela minor
Common Snipe	Capella gallinago
Killdeer	Charadrius vociferus
Belted Kingfisher	Megaceryle alcyon
Yellow-shafted Flicker	Colaptes auratus
Yellow-bellied Sapsucker	Sphyrapicus varius
Hairy Woodpecker	Dendrocopos villosus
Downy Woodpecker	Dendrocopos pubsecens
Horned Lark	Eremophila alpestris
Blue Jay	Cyanocitta cristata
Black-capped Chickadee	Parus atricapillus
White-breasted Nuthatch	Sitta carolinensis
Robin	Turdus migratorius
Cedar Waxwing	Bombycilla cedrorum

Common Name	Scientific Name
Starling	Sturnus vulgaris
Red-eyed Vireo	Vireo olivaceus
House Sparrow	Passer domesticus
Red-Winged Blackbird	Agelaius phoeniceus
Scarlet Tanager	Piranga olivacea
American Goldfinch	Spinus tristis
Dark-eyed Junco	Junco hyemalis
Song Sparrow	Melospiza melodia
Chipping Sparrow	Spizella passerina

Species of Fish Reported in the Project Area

Common Name	Scientific Name
Brook trout	*Salvelinus frontinalis*
Brown trout	*Salmo trutta*
Rainbow trout	*Salmo gairdneri*
Chain pickerel	*Esox niger*
White sucker	*Catostomus commersoni*
White perch	*Morone americana*
Smallmouth bass	*Micropterus dolomieui*
Brown bullhead	*Ictalurus nebulosus*
Pumpkinseed	*Lepomis gibbosus*
Bluegill	*Lepomis macrochirus*

STATE OF NEW HAMPSHIRE
DIVISION OF RESOURCES DEVELOPMENT

FOREST FIRE
TOWN RESOURCE PLAN

TOWN Weare
COUNTY Hillsboro
DISTRICT #2
YEAR 1979

WARDENS & DEPUTIES

TITLE	NAME	ADDRESS	TELEPHONE	RADIO	TRANSPORTATION FOR CREW
WARDEN	Frank A. Campana	PO Box 96	529-2403		
DEPUTY 1	Leon Taylor	Weare Center	529-2584		
DEPUTY 2	Wilder Tenney Jr.	Quaker St.	529-2929		
DEPUTY 3	Raymond Eaton	No Weare Village	529-2845		
DEPUTY 4	William Straw	Memorial Dr.	529-2316		
DEPUTY 5	Harold Hall	Peaslee Rd.	529-2673		
DEPUTY 6	Lawrence Damour	Heather Hill	529-7490		
DEPUTY 7	Chester Rhodenizer	Bog Hill	529-2505	Fire Chief	
DEPUTY 8					
DEPUTY 9					
DEPUTY 10					

STATE DISTRICT ASSISTANCE

		TELEPHONE	RADIO
DISTRICT CHIEF	Richard S. Chase 223 Main St. Suncook N.H.	485-9948	12
DISPATCHER	Oak Hill Tower Loudon N.H.	228-8429	KCC 701
LOOKOUT STATION(S)	Craney Hill Henniker 428-3836 Uncanoonuc Goffstown 497-8884 KCD534		

WARDENS OF ADJOINING TOWNS

TOWN	WARDEN	ADDRESS	TELEPHONE	RADIO DAY CREW	NIGHT CREW
Goffstown	Richard Fitcher	Goffstown F.D.	497-3169		
Deering					
New Boston	Kenneth R. Barss	New Boston N.H.	487-2472		
Francistown	Richard Leavitt	Francistown N.H.	547-2959		
Dunbarton	Edward Ballam	Dunbarton N.H.	774-3710	5	10
Hopkinton	Robert Houston	Hopkinton N.H.	746-3437	5	10
Henniker	E. Ben Ayer	Henniker N.H.	428-3888	5	10

ASSISTANCE TO OTHER TOWNS

5 Men days, 10 Men Nights with tools and Equipment.

TOOLS AND EQUIPMENT

HAND TOOLS	F D	W	1	2	3	4	5	6	TOTAL
B.P. Pumps	32								32
Shovels	18								18
Fire Rakes	19								19
Hazel Hoes	16								16
Pulaskis	21								21
Polls	4								4
Axes	4								4
C. C. Saws	2								4
Lanterns	11								11
Headlights	6								6
Canteens	6								6
Brooms	6								6
Mattocks	2								2
Klinnoy Rake	13								13
Drip Torch									
Warden Manual	2								2
Grid Map	2								2

TYPE PORTABLE PUMP & SPECIAL EQUIPMENT

Type "Y" Pump and Kit
600 Ft Mark 1000 Hose (Weeping)

FOREST FIRE TRUCKS AND HOSE

NO.	MAKE	TYPE PUMP	MAKE PUMP	PUMP CAP.	1½ HOSE	BOOSTER HOSE	TANK CAP.
Tk 1	Int	Vane	Unk	250 GPM	100		3000

NEW HAMPSHIRE FOREST FIRE SERVICE
TOWN RESOURCE PLAN

Year 1979

Red Net 529-2333

COOPERATING AGENCIES

Fire Department — Location: Rt. 114 Tel. _____ Radio _____
Fire Chief — Business: Tel: _____ Home Tel: 529-2505 Radio _____
Town Office Location: Rt. 114 Weare Center Tel: 529-2351

TRUCK PUMPERS AND HOSE

No.	Make	Type Pump	Make Pump	(Ft.) 1½" Hose	(Ft.) 2½" Hose	(Ft.) Booster Hose	Tank Capacity
1	Ford	Barton FE 500 GPM		2000'	1400'	250'	500
2	Ford	FE 500 GPM	Barton	1400'	750'	200'	500
3	Ford	FE 500 GPM	Barton	1200'	750'	200'	500
4	Ford	FE 750 GPM	Barton	550'	1800'	200'	750
5	Ford	FE 400 GPM	Barton	400'	400'	260'	800

Board of Selectmen:

Malcolm Purington Tel: 529-7250
John Killion Tel: 529-2199
Harold Hall Tel: 529-2673

Sources of Supply — Food, Gasoline and Oil:

Store name: Weare Center Store Manager's Name: J. Bidwell Bus. Tel: 529-9997 Home: _____
Garage Name: Brownies Mobile Manager's Name: Burt Brown Bus. Tel: 529-2648 Home: 529-2573
Airport _____ Tel: _____

Fire Plan Procedure

Town: Calls on Red Net firemen notified by tone allert system. Mutual aid from surrounding towns by previous arrangements.

Location of State Land

Clough State Park 100 A.
Vincent State Forest (Part in Deering)
Everett Flod control area. (Federal land State Mgt)

STATE OF NEW HAMPSHIRE
DIVISION OF RESOURCES DEVELOPMENT

FOREST FIRE
TOWN RESOURCE PLAN

TOWN Hopkinton
COUNTY Merrimack
DISTRICT #2
YEAR 1979

WARDENS & DEPUTIES

TITLE	NAME	ADDRESS	TELEPHONE	RADIO	TRANSPORTATION FOR CREW
WARDEN	Robert Houston	Pine Lane Cont.	746-3437	60R1	
DEPUTY 1	Thomas Krzyzaniak	Spring St.	746-3804	60R2	
DEPUTY 2	Donald Roach	Emerson Hill Rd.	746-3711		
DEPUTY 3	David Story		746-4225		
DEPUTY 4	Richard K. Boyd	Spring St.	746-3207		
DEPUTY 5	Stanley White		746-3553		
DEPUTY 6	Erlon Salisbury		746-3815		
DEPUTY 7	Leslie Townes	Spring St.	746-3836		
DEPUTY 8					
DEPUTY 9					
DEPUTY 10					

STATE DISTRICT ASSISTANCE		TELEPHONE	RADIO
DISTRICT CHIEF	Richard S. Chase 223 Main St Suncook N.H. 03275	485-9948	12
DISPATCHER	Oak Hill Tower Loudon N.H.	228-8429	KCC701
LOOKOUT STATION(S)	Craney Hill Tower Henniker N.H,	428-3836	KCC867

WARDENS OF ADJOINING TOWNS

TOWN	WARDEN	ADDRESS	TELEPHONE	RADIO	DAY CREW	NIGHT CREW
Bow	James Goodwin	Dog Rd.	225-9419	52R1	5	10
Concord	Clayton Higgins	44 Warren St.	225-3356	55R1		
Dunbarton	Edward Ballam	Rogers Rd.	774-3710	57R5	5	10
Henniker	E Ben Ayer	Henniker N.H.	428-3888	58R1	5	10
Warner	John Hill	Warner N.H.	456-3375		5	10
Webster	Robert Drowns	Battle St.	648-2210		5	10
Deering	Frank Campana	Quaker St.	529-2403		5	10

ASSISTANCE TO OTHER TOWNS

5 Men days 10 Men nights with tools and equipment.

TOOLS AND EQUIPMENT

HAND TOOLS	FD	W	1	2	3	4	5	6	TOTAL
B.P. Pumps	20								20
Shovels	8	6							14
Fire Rakes	10	6							16
Hazel Hoes	4	2							6
Pulaskis									
Pails									
Axes	3	3							6
C. C. Saws									
Lanterns									
Headlights	2								2
Canteens									
Brooms									
Mattocks									
Kinney Rake	3	4							7
Drip Torch									
Warden Manual	9								9
Grid Map	3								3

TYPE PORTABLE PUMP & SPECIAL EQUIPMENT

1- Pacific Type "Y"
1- Hale 150 GPM Portable
1- 500 GPM trailer pump.

FOREST FIRE TRUCKS AND HOSE

NO.	MAKE	TYPE PUMP	MAKE PUMP	PUMP CAP.	1½ HOSE	BOOSTER HOSE	TANK CAP.
01	Dodge	Fort		60 GPM		100	270
K1	Chev	Gear	Marlow	250 GPM	600	150	1000
K2	Dodge	Gear	Skinner	60 GPM	150		1000

NEW HAMPSHIRE FOREST FIRE SERVICE
TOWN RESOURCE PLAN

Year 1979

Red Net 746-3355

COOPERATING AGENCIES

Hoplinton Rt 103 KRB555

Fire Department — Location Contoocook Main St. Tel. 746-3711 Radio KCE344

Fire Chief — Business Tel. 746-3137 Home Tel. Same Radio 60R1

Town Office Location Hopkinton Village Tel. 746-3170

TRUCK PUMPERS AND HOSE

No.	Make	Type Pump	Make Pump	(Ft.) 1½" Hose	(Ft.) 2½" Hose	(Ft.) Booster Hose	Tank Capacity
K4	Int	F/E 750 GPM	Barton	500	1000	600 4"	600
K3	Int	F/E 750 GPM	Waterous	400	1200	150	1500
K2	Int	M/S Gear	Waterous	800		150	1000

Board of Selectmen:

James Hargrove Tel. 746-3746

Thomas Johnson Tel. 746-3859

Janet Krzyzaniak Tel. 746-3804

Sources of Supply — Food, Gasoline and Oil:

Store name Ladies Aux Manager's Name _____ Bus. Tel. _____ Home _____

Garage Name Town Pumps Manager's Name _____ Bus. Tel. _____ Home _____

Airport _____ Tel. _____

Fire Plan Procedure

Town: All calls go through Red Net. Mutual aid by agreement with Capitol Area Mutual Aid.

Location of State Land

Contoocook State Forest 35A

Goodwin Chandler State Forest 26A

Mast Yard Stste Forest 541 A

STATE OF NEW HAMPSHIRE
DIVISION OF RESOURCES DEVELOPMENT

FOREST FIRE
TOWN RESOURCE PLAN

TOWN Henniker
COUNTY Merrimack
DISTRICT #2
YEAR 1979

WARDENS & DEPUTIES

TITLE	NAME	ADDRESS	TELEPHONE	RADIO	TRANSPORTATION FOR CREW
WARDEN	E Ben Ayer	Henniker N.H.	428-3888	58R1	
DEPUTY 1	Clarence Fitch	Henniker	428-3275		
DEPUTY 2	Charles Damour	Henniker N.H.	428-7534		
DEPUTY 3	Donald Goss	Henniker N.H.	428-7140		
DEPUTY 4	Marshal Connor	Henniker N.H.	428-3853		
DEPUTY 5	Louis Damour	Henniker N.H.	428-7775		
DEPUTY 6	Fred Brunnhoelzl Jr.		428-3776		
DEPUTY 7	Fredrick Connor	Henniker N.H.	428-3867		
DEPUTY 8	Steven Connor	Henniker N.H.	428-3360		
DEPUTY 9	Welton McKean	Henniker N.H.	428-3494		
DEPUTY 10					

STATE DISTRICT ASSISTANCE		TELEPHONE	RADIO
DISTRICT CHIEF	Richard S. Chase 223 Main St Suncook N.H. 03275	485-9948	12
DISPATCHER	Oak Hill Tower Loudon N.H.	228-8329	KCC701
LOOKOUT STATION(S)	Craney Hill Tower Henniker N.H.	428-3836	KCC867

WARDENS OF ADJOINING TOWNS

TOWN	WARDEN	ADDRESS	TELEPHONE	RADIO DAY CREW	NIGHT CREW
Bradford	Paul Saxby	Bradford N.H.	938-5417	5	10
Deering				5	10
Hillsboro	Francis Hardy	Hillsboro N.H.	464-3332	5	10
Hopkinton	Robert Houston	Pine Lane Cont.	746-3437	5	10
Warner	John Hill	Warner N.H.	456-3375	5	10
Weare	Frank Campana	Quaker St.	529-2403	5	10

ASSISTANCE TO OTHER TOWNS

5 Mne days 10 Men nights with tools and Equipment. Also Tank trucks and portable Pumps.

TOOLS AND EQUIPMENT

HAND TOOLS	F D	W	1	2	3	4	5	6	TOTAL
B.P. Pumps	17	3							20
Shovels	1	5							6
Fire Rakes	3	3	5	1					12
Hazel Hoes	2	1	6						9
Pulaskis	4	1							5
Pails									
Axes	4	1							5
C. C. Saws									
Lanterns									
Headlights	8								8
Canteens	3								3
Brooms									
Mattocks									
Kinney Rake	3								3
Drip Torch									
Warden Manual	10								10
Grid Map	1	1	1						3

TYPE PORTABLE PUMP & SPECIAL EQUIPMENT

1- Pacific Type "Y"
2- 1000 gal folding tanks
1- Hale 150 GPM Portable
2600 watt Gen with 7 lights
14' Boat with 3 Hp Motor.
Jeep and trailer with tools for 20 men.

FOREST FIRE TRUCKS AND HOSE

NO.	MAKE	TYPE PUMP	MAKE PUMP	PUMP CAP.	1½ HOSE	BOOSTER HOSE	TANK CAP.
K1	Int	M/S	500	Barton	400		1250
K2	Reo	Port	Hale	250 GPM	300		1500

NEW HAMPSHIRE FOREST FIRE SERVICE
TOWN RESOURCE PLAN

Year 1979

Red Net 464-314

COOPERATING AGENCIES

Fire Department — Location Main St. Tel. 428-3221 Radio KCD527
Fire Chief — Business Tel. 428-3333 Home Tel. 428-3888 Radio 58R1
Town Office Location Rt. 114 Tel. 428-3221

TRUCK PUMPERS AND HOSE

No.	Make	Type Pump	Make Pump	(Ft.) 1½" Hose	(Ft.) 2½" Hose	(Ft.) Booster Hose	Tank, Capacity
3	Seagraves	M/S 500 GPM	Seagraves	1000	1000	300	500
1	GMc	M/S 750 GFM	Howe	1000	1100	150	750

Board of Selectmen:

John Durr Tel. 428-3221
Arthus S. Hadley Tel. Same
Norman G. Parmenter Tel. Same

Sources of Supply — Food, Gasoline and Oil:

Store name Ladies Aux Manager's Name _____ Bus. Tel. _____ Home _____
Garage Name Town Garage Manager's Name _____ Bus. Tel. _____ Home _____
Airport _____ Tel. _____

Fire Plan Procedure

Town: All calls go through red net. Mutual aid through agreement with adjoining towns.

Location of State Land

Craney Hill Tower 2.5 A
Craney Hill State Forest. 21 A.
Ames State Forest 15 A.
Vincent state Forest

STATE OF NEW HAMPSHIRE
DIVISION OF RESOURCES DEVELOPMENT

FOREST FIRE
TOWN RESOURCE PLAN

TOWN Dunbarton
COUNTY Merrimack
DISTRICT #2
YEAR 1979

WARDENS & DEPUTIES

TITLE	NAME	ADDRESS	TELEPHONE	RADIO	TRANSPORTATION FOR CREW
WARDEN	Edward Ballam	Rogers Rd.	774-3710	57R5	
DEPUTY 1	Donald Terrill	Rt 77	774-3900		
DEPUTY 2	Peter Montgomery	Rt.77	774-4222		
DEPUTY 3	Wilfred Audet		774-4733		Road Agent
DEPUTY 4	William Reno	Rogers Rd.	774-4341	57R2	
DEPUTY 5	Fred Mullen	Stark Rd.	774-3796		
DEPUTY 6	John Swindlehurst	Rt 77	774-3451	57R1	Fire Chief
DEPUTY 7	Donald Andrews		774-5700		
DEPUTY 8					
DEPUTY 9					
DEPUTY 10					

STATE DISTRICT ASSISTANCE		TELEPHONE	RADIO
DISTRICT CHIEF	Richard S. Chase 223 Main St. Suncook N.H.	485-9948	12
DISPATCHER	Oak Hill Tower Loudon N.H.	228-8429	KCC701
LOOKOUT STATION(S)	Craney Hill Tower Henniker N.H.	428-3836	KCC867

WARDENS OF ADJOINING TOWNS

TOWN	WARDEN	ADDRESS	TELEPHONE	RADIO	DAY CREW	NIGHT CREW
Bow	James Goodwin	Bog Rd.	225-9419	52R1	5	10
Concord	Clayton Higgins	44Warren St.	225-3356	55R1		
Hooksett	Alfred Colleret	e Dundee Ave.	485-3386	27R1	5	10
Goffstown	Richard Fletcher	Church St,	497-3619			
Hopkinton	Robert Houston	Pine Lane Cont.	746-3437	60R1	5	10
Weare	Frank Campana	Quaker St.	529-2403		5	10

ASSISTANCE TO OTHER TOWNS

5 Men Days 10 Men nights, with tools and equipment.

TOOLS AND EQUIPMENT

HAND TOOLS	F D	W	1	2	3	4	5	6	TOTAL
B.P. Pumps	17	1							18
Shovels	15	1							16
Fire Rakes	11								11
Hazel Hoes	6								6
Pulaskis	3								3
Pulis									
Axes	5								5
C. C. Saws									
Lanterns	9								9
Headlights	5								5
Canteens									
Brooms									
Mattocks									
Kinney Rake									
Drip Torch									
Warden Manual	7								72
Grid Map	1								1

TYPE PORTABLE PUMP & SPECIAL EQUIPMENT

FOREST FIRE TRUCKS AND HOSE

NO.	MAKE	TYPE PUMP	MAKE PUMP	PUMP CAP.	1½ HOSE	BOOSTER HOSE	TANK CAP.
57 01	Dodge	Port	Marlow	75 GPM	250		300
57 K2	GMC6X6	F/E	Champion	300 GPM	400		1200

NEW HAMPSHIRE FOREST FIRE SERVICE
TOWN RESOURCE PLAN

Year 1979

Red Net 225-3355

COOPERATING AGENCIES

Fire Department — Location Rogers Rd. Tel. 774-3542 Radio KFK592
Fire Chief — Business Tel. 774-3451 Home Tel. Same Radio
Town Office Location Center of Town Tel. 774-3541

TRUCK PUMPERS AND HOSE

No.	Make	Type Pump	Make Pump	(Ft.) 1½" Hose	(Ft.) 2½" Hose	(Ft.) Booster Hose	Tank Capacity
57M1	Ford	F/E 500 GPM	Waterous	600	450	400	500
57M3	Int	M/S 750 GPM	Waterous	700	750	350	750
57K1	GMC	Gear 250 GPM		150			1200

Board of Selectmen:

Harold Mooney Tel. 774-3916
Leslie Hammond Tel. 774-3026
Thomas Gable Tel. 774-3957

Sources of Supply — Food, Gasoline and Oil:

Store name Ladies Aux Manager's Name Bus. Tel. Home
Garage Name Fire Dept Pumps Manager's Name Bus. Tel. Home
Airport Tel.

Fire Plan Procedure

Town: All calls go through capitol area mutual aid dispach center. Mutual aid calls go through mutual aid dispach center by previous arrangement.

Location of State Land

Hopkinton Everett Flood control Area

Tract Everett Lake

Inventory Date 8/79

STATE-OWNED FOREST INVENTORY
Compartment Summary
MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft.
			Hardwood	Softwood		
1	± 385	-	312,864	1,173,460	1,486,324	6,447
2	± 330	-	269,071	591,943	861,014	2,609
3	± 342	-	135,202	2,890,919	3,026,121	6,899
4	± 279	-	91,859	1,448,051	1,539,910	5,519
5	± 335	-	99,514	2,113,406	2,212,920	6,606
6	± 245	-	1,903	813,029	814,932	3,326
7	± 452	-	463,118	3,144,228	3,607,346	9,906
8	± 654	-	463,718	4,667,858	5,131,576	7,846
TOTALS	± 3022		1,837,249	16,842,894	18,680,143	6,145

Tract Hopkinton

Inventory Date 9/79

STATE OWNED FOREST INVENTORY
MERCHANTABLE TIMBER VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol Board Feet	Ave. /Acre Vol.Bd.Ft.
			Hardwood	Softwood		
1	373 ±	--	226,185	1,544,675	1,770,860	10,466
2	355 ±	--	173,838	442,219	616,057	7,710
3	564 ±	--	358,123	3,155,016	3,513,139	10,415
4	756 ±	--	353,702	4,224,905	4,578,607	10,710
5	841 ±	--	249,928	3,362,351	3,612,279	14,914
6	262 ±	--	481,277	1,569,770	2,051,047	8,687
7	362 ±	--	278,250	999,531	1,277,781	8,961
8	463 ±	--	263,949	1,743,155	2,007,104	13,552
9	510 ±	--	341,500	1,112,474	1,453,974	9,429
TOTAL	4,486 ±	--	2,726,752	18,154,096	20,880,848	10,538

Compartment #1

Tract Everett

Inventory Date 8/10/78

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft
			Hardwood	Softwood		
1	1.6	WP/HW 3	1,128	9,312	10,440	6,525
2	13.6	HW 2/3	30,812	30,274	59,096	4,344
3	7.5	WP/HW 2/3	-	-	-	-
4	9.3	WP/HW 3	26,997	19,985	46,982	5,039
5	4.0	HW 3/4	-	-	-	-
6	50.6	WP 3	64,663	513,833	572,576	11,430
7	17.7	HW 3	69,045	16,654	85,699	4,876
8	2.6	WP 2	-	-	-	-
9		NO	STAND	9		
10	28.0	Wetland (ss,m)	-	-	-	-
11	2.5	HW/2	-	-	-	-
12	13.0	Hem/WP 3/4	-	-	-	-
13	57.0	AF	-	-	-	-
14	26.1	HW/WP 2/3	13,192	43,416	56,608	2,164
15	14.2	WP-3	26,734	187,256	168,501	11,866
16	16.8	WP/HW 3	10,252	91,409	101,661	6,077
17	3.3	HW 4	13,106	21,806	34,912	10,516
18	3.2	HW 2/3	-	-	-	-
19	22.7	HW 2/3	18,324	42,364	60,688	2,667
20	6.2	S&G	-	-	-	-
TOTAL						

Compartment #1

Tract Everett

Inventory Date 8/10/78

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp.. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft.
			Hardwood	Softwood		
21	18.1	Hem/3	22,891	93,460	116,351	6,427
22	10.5	AF	-	-	-	-
23	29.8	WP/Hem 2/3	15,720	157,120	172,840	5,800
24	7.0	HW 2/3	-	-	-	-
25	5.8	Agr. Field	-	-	-	-
26	3.7	HW 4	-	-	-	-
TOTAL 26	385		312,864	1,173,460	1,486,324	6,477

Compartment 2 Tract Everett Lake

Inventory Date 8/29/78

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft.
			Hardwood	Softwood		
1	2.6	AF	-	-	-	-
2	11.3	HW 3	72,335	-	72,335	6,401
3	4.7	HEM/WP 2-3	-	49,892	49,892	10,615
4	19.0	WP 3	-	105,013	105,013	5,526
5	11.2	HW 2	-	7,529	7,529	672
6	5.8	WP/HW 2-3	-	-	-	-
7	12.0	HW 3/4	56,230	-	56,230	4,686
8	26.1	WP 3	13,093	97,892	110,985	4,261
9	18.7	HEM/HW 3	53,995	69,153	123,148	6,585
10	38.0	Seasonally Flooded (SS)	-	-	-	-
11	58.1	Project Area	-	-	-	-
12	4.2	WP 4	-	-	-	-
13	10.8	Sand and gravel	-	-	-	-
14	31.8	HW/WP 2-3	31,572	82,528	114,100	3,585
15	16.3	Wetland (SS&M)	-	-	-	-
16	13.0	WP 2/3	6,668	68,260	74,928	2,773
17	1.8	Sand and gravel	-	-	-	-
18	33.0	HW/WP 2/3	35,178	111,676	146,854	4,448
19	5.7	RPP Sapl.	-	-	-	-
20	4.0	Open Water	-	-	-	-
TOTAL 21	1.4	WP 4	-	-	-	-
21	+ - 330		269,071	591,943	861,014	2,609

Compartment #4

Tract Everett

Inventory Date 9/15/78

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft.
			Hardwood	Softwood		
1	0.8	Abandoned Field	N/A	N/A	N/A	N/A
2	2.5	Open Field	N/A	N/A	N/A	N/A
3	1.4	Wetland (SS & M)	N/A	N/A	N/A	N/A
4	75.0	White Pine #3	26,125	625,758	651,933	8,691
5	16.3	White Pine (3/4)	10,112	330,342	340,454	20,886
6	18.8	Abandoned Field	N/A	N/A	N/A	N/A
7	3.0	Red Pine Plantation (2/3)	N/A	N/A	N/A	N/A
8	2.0	Red Pine Plantation (#3)	N/A	N/A	N/A	N/A
9	10.3	Hardwood Swamp (#2)	N/A	6,924	6,924	672
10	42.2	Wetland (SS, M, HWs)	N/A	N/A	N/A	N/A
11	6.8	Hardwoods (#3)	12,944	36,113	49,057	7,214
12	16.7	White Pine 2/3	N/A	53,187	53,187	3,185
13	9.2	Abandoned Field	N/A	N/A	N/A	N/A
14	2.7	Hardwoods 2/3	N/A	N/A	N/A	N/A
15	8.9	HW/HEM/WP 3	12,967	71,992	84,959	9,546
16	16.3	White Pine #3	25,699	181,323	207,022	12,700
17	3.1	Abandoned Field	N/A	N/A	N/A	N/A
18	8.5	Wetland HW swamps	N/A	N/A	N/A	N/A
19	8.7	White Pine (2/3)	N/A	42,173	42,173	4,847
TOTAL						

Compartment #4

Tract Everett

Inventory Date 9/15/78

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft.
			Hardwood	Softwood		
20	2.2	Abandoned Field	N/A	N/A	N/A	N/A
21	19.4	White Pine 2/3	4,012	100,239	104,251	5,374
22	3.9	Abandon Field	N/A	N/A	N/A	N/A
22 TOTAL ±	279		91,859	1,448,051	1,539,910	5,519

Compartment 5

Tract Everett

Inventory Date 9/78

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft.
			Hardwood	Softwood		
1	6.1	Abandoned Field	N/A	N/A	N/A	N/A
2	16.0	White Pine #2/3	10,678	104,608	115,286	7,205
3	1.7	Abandoned Field	N/A	915	915	538
4	39.0	Hardwoods #2/3	8,554	61,572	70,126	1,797
5	6.9	HW/Hem 2/3	11,675	14,480	26,155	3,790
6	3.0	White Pine #2	N/A	N/A	N/A	N/A
7	7.0	Hardwoods #2/3	N/A	24,104	24,104	3,443
8	64.2	White Pine #4	9,052	1,126,090	1,135,142	17,681
9	18.8	Abandoned Field	N/A	N/A	N/A	N/A
10	2.0	HW/WP #3	N/A	N/A	N/A	N/A
11	0.6	Open Water	N/A	N/A	N/A	N/A
12	1.5	HW/SS swamp	N/A	N/A	N/A	N/A
13	14.0	Hemlock #2/3	24,162	116,001	140,163	10,012
14	10.8	HW/WP #2	10,152	39,360	49,512	4,584
15	3.0	Hardwood #2	N/A	N/A	N/A	N/A
16	11.5	Abandoned Field	N/A	N/A	N/A	N/A
17	15.0	Hardwoods #2/3	10,575	59,908	70,483	4,699
18	7.7	White Pine #2/3	N/A	82,005	82,005	10,650
19	9.8	Hemlock/WP 2/3	10,018	60,316	70,334	7,182
20	9.2	Wetland (ss,m)	N/A	N/A	N/A	N/A
TOTAL	- Continued -					

Compartment 5
Continued

Tract Everett

Inventory Date 9/78

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft.
			Hardwood	Softwood		
21	2.3	Field	N/A	N/A	N/A	N/A
22	1.3	Hardwoods #2	N/A	N/A	N/A	N/A
23	2.2	Field	N/A	N/A	N/A	N/A
24	4.6	Sand & Gravel	N/A	N/A	N/A	N/A
25	1.4	Hardwoods #2	N/A	N/A	N/A	N/A
26	1.5	Shrub swamp	N/A	N/A	N/A	N/A
27	3.2	WP/HW # 2/3	N/A	N/A	N/A	N/A
28	8.2	HW/WP #2	N/A	N/A	N/A	N/A
29	4.4	WP #3 plantation	N/A	12,804	12,804	2,910
30	9.2	White Pine #3	N/A	119,274	119,274	12,964
31	14.6	Red Pine Plantation #3	N/A	114,181	114,181	7,820
32	32.6	White Pine #3	4,648	177,788	182,436	5,595
TOTAL 32			99,514	2,113,406	2,212,920	6,606

Compartment #6

Tract Everett

Inventory Date 9/12/78

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft.
			Hardwood	Softwood		
1	18.2	Abandon Field	N/A	N/A	N/A	N/A
2	3.0	Abandon Field	N/A	N/A	N/A	N/A
3	3.1	Hardwoods (#2)	N/A	N/A	N/A	N/A
4	10.8	White Pine (3/4)	N/A	101,866	101,866	9,432
5	18.8	Wetland (shrub swamp)	N/A	N/A	N/A	N/A
6	17.5	Abandon Field	N/A	N/A	N/A	N/A
7	1.7	White Pine (#3)	N/A	N/A	N/A	N/A
8	7.2	Abandon Field	N/A	N/A	N/A	N/A
9	15.0	Hardwoods #2	N/A	N/A	N/A	N/A
10	5.2	Agr. Field	N/A	N/A	N/A	N/A
11	5.4	White Pine (#3)	1,903	15,452	17,355	3,213
12	38.6	White Pine (3/4)	N/A	495,299	495,299	12,832
13	31.9	Wetland Shrub swamp	N/A	N/A	N/A	N/A
14	28.4	White Pine 2/3	N/A	81,726	81,726	2,878
15	0.9	Hardwoods 2/3	N/A	N/A	N/A	N/A
16	6.0	Field/AF	N/A	N/A	N/A	N/A
17	0.9	Riparian Hardwoods	N/A	N/A	N/A	N/A
18	1.2	Open Water	N/A	N/A	N/A	N/A
19	4.8	Wetland Hardwoods #2	N/A	N/A	N/A	N/A
Continued						
TOTAL						

Tract Everett

Inventory Date 9/12/78

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft.
			Hardwood	Softwood		
20	16.3	White Pine (2/3)	N/A	106,345	106,345	6,524
21	7.0	WP/HW (2/3)	N/A	12,341	12,341	1,763
22	2.7	Abandon Field	N/A	N/A	N/A	N/A
22 TOTAL ±	245		1,903	813,029	814,932	3,326

Compartment # 7

Tract Everett

Inventory Date 8/27/79

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft.
			Hardwood	Softwood		
1	7.7	Field	–	–	–	–
2	6.8	WP 2/4	4,270	129,479	133,749	19,669
3	29.0	WP, RO, RM 2	34,597	49,938	84,535	2,915
4	6.3	GB, RM 3	–	–	–	–
5	17.2	Field	–	–	–	–
6	17.7	WP 3/5	7,487	308,599	316,086	17,858
7	42.4	WP, RO, RM 3/4	44,605	346,705	394,362	9,301
8	53.3	WP, RO, RM 3/5	172,585	355,458	528,043	9,907
9	49.7	SM, B, YB 3/4	131,848	251,234	384,877	7,744
10	62.9	WP 3/4	30,571	817,511	848,082	13,483
11	49.0	WP 3/5	3,038	538,559	541,597	11,053
12	60.1	WP, RO, RM 2/4	23,499	342,990	366,489	6,098
13	10.6	Flood control project-canal	–	–	–	–
14	19.7	Marsh	–	–	–	–
15	12.6	GB, RM 2	10,618	3,755	14,373	1,141
OW	7.1	Open water	–	–	–	–
TOTAL	+ – 452	–	468,008	3,144,185	3,612,193	9,917

Tract Everett

Inventory Date 8/10/79

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft
			Hardwood	Softwood		
1	5.0	WP, HE 3/4	-	72,150	72,150	14,540
2	5.5	WP 3/4	-	125,042	125,042	22,694
3	13.2	WP, RO, RM 2/5	17,226	170,156	187,382	14,228
4	7.8	WP, HE 2/4	51,631	95,300	146,931	18,789
5	2.8	-	-	-	-	-
6	4.2	WP, RO, RM 3/5	1,484	67,127	68,611	16,296
7	11.9	WP 2/4	11,272	231,654	242,926	20,467
8	6.6	GB, RM 2	-	-	-	-
9	55.6	WP, RO, RM 2/4	67,932	728,975	796,907	14,329
10	18.1	WP 3/4	-	271,330	271,330	14,965
11	24.4	ASPEN 1	-	-	-	-
12	6.4	GB, RM 1	-	-	-	-
13	-	-	-	-	-	-
14	24.4	WP 3/4	20,195	375,308	395,503	16,176
15	8.0	WP, RO, RM 2/4	21,775	52,320	73,595	9,232
16	5.6	WP, HE 3/4	3,616	55,349	58,965	10,606
17	3.4	WP, HE 3/4	-	56,771	56,771	16,897
18	6.1	WP, HE 3/4	6,364	38,566	44,930	7,351
19	15.8	WP, RO, RM 3/5	16,081	137,120	153,201	9,700
20	32.9	WP, RO, RM 3	18,352	213,324	231,676	7,044
21	1.7	WP 2/4	-	21,065	21,065	12,319
TOTAL						

Tract Everett

Inventory Date 8/10/79

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol. Bd. Ft.
			Hardwood	Softwood		
22	37.0	GB, RM 1/2	19,589	36,044	55,633	1,502
23	17.2	WP, RO, RM 3/4	46,052	107,661	153,713	8,942
24	8.1	WP, RO, RM 2/4	11,027	37,196	48,223	5,917
25	27.2	ASPEN 1	–	–	–	–
26	9.9	WP 2/4	–	164,057	164,057	16,538
27	1.7	WP, RO, RM 1/4	–	15,134	15,134	8,851
28	3.0	WP 3/4	–	100,371	100,371	33,126
29	21.8	WP, RO, RM 2/4	46,371	183,546	229,917	10,566
30	31.7	WP 3	16,506	184,314	200,820	6,339
31	34.4	WP 2/4	19,488	443,561	463,049	13,449
32	2.2	WP, HE 3/4	1,551	4,825	6,376	2,898
33	62.2	WP, HE 2/4	67,706	561,128	628,834	10,105
34	43.2	GB, RM 2/3	–	–	–	–
35	33.4	Marsh	–	–	–	–
36	4.4	WP 2/4	–	75,330	75,330	17,120
37	6.5	Field	–	–	–	–
38	15.2	Dike P-2	–	–	–	–
39	8.6	GB, RM 2/3	–	–	–	–
40	2.2	WP 2	–	–	–	–
41	6.3	WP, RO 3	–	43,134	43,134	6,901
42	1.8	GB, RM 1	–	–	–	–
TOTAL			463,718	4,667,858	5,131,576	7,846

Compartment #8

Tract Everett

Inventory Date 8/10/79

STATE-OWNED FOREST INVENTORY

MERCHANTABLE TIMBER-VOLUME SUMMARY

Comp. No.	Acres	Forest Type-Size Class	Merch. Timber Volume Board Feet		Total Merch. Vol. Board Feet	Ave./Acre Vol.Bd.Ft.
			Hardwood	Softwood		
–	17.3	Open water	–	–	–	–
–	1.8	Rt 77 relocated	–	–	–	–
–	.5	Dike P-1	–	–	–	–
TOTAL	± 654					

Tract Hopkinton

Inventory Date 9/21/79

U.S. ARMY CORPS OF ENGINEERS
MERCHANTABLE TIMBER VOLUME SUMMARY

Compartment 1

Comp. No.	Acres	SAF Cover - Size Type Class	Merchantable Timber Volume Board Feet Hardwood	Softwood	Total	Ave/Acre	Average Basal Area Per Acre
1	25.5	WP 4	21,573	430,441	452,014	17,771	160
2	15.5	WP, RO, RM 3	12,571	99,835	112,406	7,252	147.5
3	38.3	WP 3	34,737	346,194	380,931	9,947	145
4	66.2	Open	-	-	-	-	
5	3.0	Shrub Swamp	-	-	-	-	
6	4.1	WP, RO, RM 3	29,208	11,336	40,544	9,889	140
7	13.1	WP 4	-	85,321	85,321	6,513	70
8	27.3	GB, RM 1	-	-	-	-	
9	11.4	WP, HE 4	7,182	97,492	104,674	9,182	131.3
10	29.3	WP 3	16,496	273,925	290,421	9,912	150
11	35.8	WP, RO, RM 3	101,457	150,646	252,103	7,042	123.3
12	3.0	WP 4	2,961	49,485	52,446	17,482	140
13	9.1	Marsh	-	-	-	-	
14	91.7	Open water	-	-	-	-	
Total	373.3		226,185	1,544,675	1,770,860	10,466	

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Tract Hopkinton

Inventory Date 6/20/80

U.S. ARMY CORPS OF ENGINEERS
MERCHANTABLE TIMBER VOLUME SUMMARY

Compartment 2

Comp. No.	Acres	SAF Cover - Size Type Class	Merchantable Timber Volume Board Feet Hardwood	Softwood	Total	Ave/Acre	Average Basal Area Per Acre
1	24.5	WP, RO, RM 5	42,530	188,038	230,568	9,395	142.5
2	14.8	WP, RO, RM 4	16,915	64,824	81,739	5,523	126
3	24.9	GB, RM 2	-	-	-	-	
4	13.5	GB, RM 2	-	-	-	-	
5	10.9	GB, RM 2	-	-	-	-	
6	5.8	WP, RO, RM 4	2,685	28,686	31,371	5,409	126.7
7	7.6	SAND	-	-	-	-	
8	34.8	WP, RO, RM 4	111,708	160,671	272,379	7,827	144
Open Water	218.2	-	-	-	-	-	
Total	355	-	173,838	442,219	616,057	7,710	

NED 1 OCT 80 FORM 734

Tract Hopkinton

Inventory Date 7/1/80

U.S. ARMY CORPS OF ENGINEERS
MERCHANTABLE TIMBER VOLUME SUMMARY

Compartment 3

Comp. No.	Acres	SAF Cover - Size Type Class	Merchantable Timber Volume Board Feet Hardwood	Softwood	Total	Ave/Acre	Average Basal Area Per Acre
1	14.9	WP, RO, RM 3	26,359	56,247	82,606	5,544	144
2	46.6	WP, RO, RM 4	27,960	427,089	455,049	9,765	169.3
3	24.0	SM, B, YB 4	88,152	163,224	251,376	10,474	190
4	61.7	WP, HE 4	14,931	870,767	885,698	14,354	204.2
5	10.8	WP, RO, RM 3	11,776	42,463	54,239	5,022	158
6	86.2	WP, RO, RM 4	123,784	718,305	842,089	9,769	164
7	65.5	WP, RO, RM 3	56,898	497,759	554,657	8,476	150
8	28.0	WP	8,263	379,162	387,425	13,836	152.5
9	52.8	-	-	-	-	-	-
10	173.9	-	-	-	-	-	-
Total	564	-	358,123	3,155,016	3,513,139	10,415	-

NED FORM 1 OCT 80 734

Tract Hopkinton

Inventory Date 6/25/80

U.S. ARMY CORPS OF ENGINEERS
MERCHANTABLE TIMBER VOLUME SUMMARY

Compartment 4

Comp. No.	Acres	SAF Cover - Size Type Class	Merchantable Timber Volume Board Feet Hardwood	Softwood	Total	Ave/Acre	Average Basal Area Per Acre
1	23.5	WP 4	14,687	295,035	309,722	13,180	172.9
2	11.3	WP, RO, RM 4	25,301	134,153	159,454	14,111	206.7
3	14.3	WP 4	7,379	239,441	246,820	17,260	196.7
4	19.6	WP 4	-	281,319	281,319	14,353	153.7
5	36.6	WP 4	-	731,483	731,483	19,986	218
6	55.7	WP, RO, RM 4	107,259	568,175	675,434	12,126	209.2
7	266.5	WP, RO, RM 3/4	199,076	1,975,299	2,174,375	8,159	155.2
8	64.8	Open Water					
9	27.1	GB, RM 1/2					
10	105.9	Fields					
11	24.9	WP, RO, RM 3					
12	56.0	Wooded Marsh					
13	19.0	Wetlands					
14	4.3	Agri.Lease Fields					
15	.6	WP 5					
16	.9	WP, RO, RM 3/4					
17	4.4	WP, RO, RM 3					
Dike	20.8	Dike					
Total	756.2		353,702	4,224,905	4,578,607	10,710	

NED FORM 1 OCT 80 734

Tract Hopkinton

Inventory Date 7/24/80

U.S. ARMY CORPS OF ENGINEERS
MERCHANTABLE TIMBER VOLUME SUMMARY

Compartment 5

Comp. No.	Acres	SAF Cover - Size Type Class	Merchantable Timber Volume Board Feet Hardwood	Softwood	Total	Ave/Acre	Average Basal Area Per Acre
1	33.6	WP 3/4	7,919	516,160	524,079	16,368	198.9
2	28.8	WP, RO, RM 4	63,620	266,803	330,423	11,473	171.7
3	31.6	WP 4	8,331	564,390	572,721	18,124	186.7
4	6.3	SM, B, YB 3	9,237	19,788	29,025	4,607	150
5	34.0	WP, RO, RM 3	59,806	328,354	388,160	11,415	172.2
6	16.2	WP, RO, RM 4	22,000	246,645	268,645	16,583	236.7
7	6.4	WP, RO, RM 4	2,042	107,840	109,882	17,169	163.3
8	46.1	WP 4/5	40,752	851,144	891,896	19,347	187.3
9	48.3	WP, RO, RM 3					
10	39.2	WP 3/4	36,221	461,227	497,446	12,690	152.9
11	114.8	GB, RM 1/2					
12	182.6	Field					
13	35.1	Dikes					
14	8.8	Dam Office					
15	27.4	Swamp					
16	24.1	Elm Brook Area					
17	157.8	Open Water					
Total	941.1		249,928	3,362,351	3,612,279	14,914	

NED FORM 1 OCT 80 734

Tract Hopkinton

Inventory Date Aug 80

U.S. ARMY CORPS OF ENGINEERS
MERCHANTABLE TIMBER VOLUME SUMMARY

Compartment 6

Comp. No.	Acres	SAF Cover - Size Type Class	Merchantable Timber Volume Board Feet Hardwood	Softwood	Total	Ave/Acre	Average Basal Area Per Acre
1	21.1	WP, RO, RM 3	46,414	113,036	159,450	7,558	148.6
2	37.2	WP 4	8,199	565,034	573,233	15,409	152.5
3	92.0	WP 3	155,359	591,051	746,410	8,112	188.6
4	16.3	WP, RO, RM 3	40,908	63,513	104,421	6,406	177
5	25.6	BA, ELM, RN 3	102,272	44,698	146,970	5,742	140
6	43.9	WP, RO, RM 3	128,125	192,438	320,563	7,301	159
7	6.4	Abandoned Fields					
8	1.2	Marsh					
9	1.0	BS, T 1					
10	17.2	Agricultural Lease					
Total	262		481,277	1,569,770	2,051,047	8,687	161

NED FORM 734
1 OCT 80

Tract Hopkinton

Inventory Date 8/22/80

U.S. ARMY CORPS OF ENGINEERS
MERCHANTABLE TIMBER VOLUME SUMMARY

Compartment 7

Comp. No.	Acres	SAF Cover - Size Type Class	Merchantable Timber Volume Board Feet Hardwood	Softwood	Total	Ave/Acre	Average Basal Area Per Acre
1	29.2	WP, RO, RM 3	110,142	215,905	326,047	11,166	188.0
2	25.3	WP 4	41,821	143,932	185,753	7,342	138.6
3	17.7	BA, E, RM 3					
4	4.2	WP, RO, RM 3	20,992	29,749	50,741	12,081	160.0
5	.9	Field					
6	14.3	WP 4	7,507	129,844	137,351	9,605	152.0
7	19.1	WP 2					
8	118.1	Fields					
9	69.6	WP 4	97,788	480,101	577,889	8,303	174.7
10	.5	Boat Launch					
11	13.9	GB, RM 3					
12	32.0	WP, RO, RM 3					
13	9.9	GB, RM 2					
14	7.1	R.R					
	362		278,250	999,531	1,277,781	8,961	166.7

NED FORM 1 OCT 80 734

Tract Hopkinton

Inventory Date 9/9/80

U.S. ARMY CORPS OF ENGINEERS
MERCHANTABLE TIMBER VOLUME SUMMARY

Compartment 8

Comp. No.	Acres	SAF Cover - Size Type Class	Merchantable Timber Volume Board Feet Hardwood	Softwood	Total	Ave/Acre	Average Basal Area Per Acre
1	47.9	WP, RO, RN 3	114,005	433,208	547,213	11,424	191
2	13.3	WP 3	6,278	158,456	164,734	12,386	123
3	19.1	WP 3	10,219	230,270	240,489	12,591	156
4	19.6	WP 4	23,520	387,335	410,855	20,962	194
5	11.4	WP, HE 3	13,121	199,979	213,100	18,693	220
6	12.9	WP 4	25,774	184,883	210,657	16,330	165
7	16.6	WP, RO, RM 3	71,032	92,346	163,378	9,842	228
8	7.3	RP 3		56,678	56,678	7,764	205
9	17.2	**Alder**					
10	16.5	**Abandoned Fields**					
11	17.6	**Agriuoltural Fields**					
12	17.2	**Marsh**					
13	155.4	GB, RM 2					
14	76.5	GB, RM 3					
15	1.7						
16	12.4						
	462.6		263,949	1,743,155	2,007,104	13,552	185

NED FORM 1 OCT 80 734

Tract Hopkinton

Inventory Date 9/2/80

U.S. ARMY CORPS OF ENGINEERS
MERCHANTABLE TIMBER VOLUME SUMMARY

Compartment 9

Comp. No.	Acres	SAF Cover Type - Size Class	Merchantable Timber Volume Board Feet Hardwood	Softwood	Total	Ave/Acre	Average Basal Area Per Acre
1	38.7	WP, RO, RM 4	57,021	172,486	229,507	5930	140
2	3.9	Marsh					
3	33.8	Abandoned Fields					
4	201.5	Agriculture					
5	1.8	GB, RM 2					
6	2.9	PP 3					
7	105.7	WP, RO, RM 3/4					
8	115.5	WP,RO,RM 3/4	284,479	939,988	1,224,467	10,602	157.7
9	6.3	Field					
	510.1		341,500	1,112,474	1,453,974	9429	149

NED FORM 1 OCT 80 734

SILVICULTURAL TREATMENT

Everett Portion

Compt.	Timber Stand Improvement (acres)		Sawtimber Harvesting (acres)	
	Med.	High	Med.	High
1	64.0	0.0	0.0	0.0
2	45.0	33.0	12.0	-
3	11.0	2.0	52.0	157.0
4	25.0	3.0	100.0	2.0
5	59.0	19.0	9.0	64.0
6	74.0	20.0	50.0	-
7	49.0	29.0	226.0	-
8	-	-	249.0	15.4
TOTALS	327.0	106.0	698.0	238.0

Hopkinton Portion

Compt.	Timber Stand Improvement (acres)		Sawtimber Harvesting (acres)	
	Med.	High	Med.	High
1	-	-	50.0	36.0
2	-	-	6.0	-
3	15.0	-	152.0	160.0
4	-	-	68.0	118.0
5	-	-	199.0	-
6	-	-	-	-
7	-	-	138.0	-
8	-	-	67.0	7.0
9	-	-	-	-
TOTALS	15.0	0.0	680.0	321.0

Data based on 1978 - 1980 Inventory

Compartment #1

Tract Everett

Inventory Date 8/10/78

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No.
1	1.6	WP/HW 3	Forestry Check in 20 yrs.	8/10/78	Low (3)
2	13.6	HW 2/3	Forestry Woodcut	8/10/78	Low (3)
3	7.5	WP/HW 2/3	Wildlife Leave as Buffer	8/10/78	Low (3)
4	9.3	WP/HW 3	Forestry - TSI	8/11/78	Moderate (2)
5	4.0	HW 3/4	Wildlife Leave as Buffer	8/10/78	High (1)
6	50.6	WP 3	Forestry Check in 15 yrs.	8/11/78	Low (3)
7	17.7	HW 3	Forestry Check in 20 yrs.	8/10/78	Low/Moderate (2-3)
8	2.6	WP 2	Forestry TSI Thin in 10-15 yrs.	8/10/78	Moderate (2)
9		NO	STAND	9	
10	28.0	Wetland (ss,m)	Wildlife Protection	8/10/78	High (1)
11	2.5	HW/2	Wildlife Leave as Buffer	8/10/78	Moderate (2)
12	13.0	Hem/WP 3/4	Wildlife Leave as Buffer to marsh	8/10/78	High (1)
13	57.0	AF	Wildlife-Rec	8/10/78	Moderate (2)
14	26.1	HW/WP 2/3	Forestry Check in 20 yrs.	8/10/78	Low (3)
15	14.2	WP 3	Forestry Check in 15 yrs.	8/11/78	Low (3)
16	16.8	WP/HW 3	Forestry Check in 15 yrs.	8/11/78	Low (3)
17	3.3	HW 4	Wildlife Mast Prod.	8/10/78	Moderate (2)
18	3.2	HW 2/3	Wildlife Leave as Buffer	8/10/78	Moderate (2)
19	22.7	HW 2/3	Forestry-Thin	8/11/78	Moderate (2)
20	6.2	S&G	Leave as is	8/10/78	Low (3)
TOTAL					

Compartment #1

Tract Everett

Inventory Date

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No.)
21	18.1	Hem 3	Forestry Check in 15 yrs.	8/10/78	Low (3)
22	10.5	AF	Wildlife Let succession Cont.	8/10/78	Low (3)
23	29.8	WP/Hem 2/3	Forestry Thin in 10 yrs.	8/11/78	Moderate (2)
24	7.0	HW 2/3	Wildlife Leave as is	8/10/78	Moderate (2)
25	5.8	Agr. Field	Leased	8/10/78	High (1)
26	3.7	HW 4	Wildlife Leave as mast.	8/10/78	Moderate (2)
TOTAL					

Compartment 2

Tract Everett Lake

Inventory Date 8/29/78

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

tand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No.)
1	2.6	AF	Wildlife - Succession	8/28/78	Low
2	11.3	HW 3	Wildlife - Mast	8/29/78	Moderate
3	4.7	HEM/WP 2-3	Forestry	8/29/78	Low
4	19.0	WP 3	Forestry Precomm. Thin - 10 yrs.	8/29/78	Moderate
5	11.2	HW 2	Wildlife - Aspen Release	8/29/78	Low
6	5.8	WP/HW 2-3	For-Wildlife Succession	8/29/78	Low
7	12.0	HW 3/4	Forestry - Check in 15 yrs.	8/29/78	Moderate
8	26.1	WP 3	Forestry - Thin in 10 yrs.	8/29/78	Moderate
9	18.7	HEM/HW 3	Forestry	8/29/78	Low
10	38.0	Seasonally Flooded (SS)	Wildlife	8/29/78	Low
11	58.1	Project Area	Flood Control	8/29/78	High
12	4.2	WP 4	Recreation	8/29/78	Low
13	10.8	Sand and gravel	Wildlife - Succession cont.	8/29/78	Low
14	31.8	HW/WP 2-3	Forestry - Check in 20 yrs.	8/29/78	Low
15	16.3	Wetland (SS&M)	Wildlife - Protection	8/29/78	Moderate
16	13.0	WP 2/3	Forestry - TSI Thin in 10 yrs.	8/29/78	High
17	1.8	Sand and gravel	Wildlife - Succession to cont	8/29/78	Low
18	33.0	HW/WP 2/3	Forestry - TSI Thin in 10 yrs.	8/29/78	High
19	5.7	RPP Sapl.	Wildlife & Soil improvement	8/29/78	Low
20	4.0	Open water	Wildlife - Fisheries	8/29/78	Low
21	1.4	WP 4	Recreation - Picnic Area	8/29/78	Moderate
TOTAL					
21	+ - 330				

Compartment 3

Tract Everett

Inventory Date 9/6/78

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No
1	48.8	Clough State Park	Recreation (Continue)	9/6/78	High
2	100.4	WP Sawlogs (#4)	Selective Harvest 0-5 years.	9/6/78	High
3	12.1	Hardwood 2/3	Wildlife Browse Cuts-Aspen Release	9/6/78	Low
4	9.0	Hardwoods 2/3	Wildlife Mgt.-Protection	9/6/78	Low
5	25.2	Red Pine Plantation (#4)	Group selective cut 0-5 years.	9/6/78	High
6	27.3	Wetland (Marsh)	Protection-Install wood duck boxes	9/6/78	High
7	8.9	White Pine Pole (#2)	Wildlife Mgt. Promote HW	9/6/78	Moderate
8	36.9	White Pine Sawlogs (#3/4)	Partial cut in ± 10-15 years.	9/6/78	Moderate
9	1.7	Red Pine Plantation (#3)	Pre-commercial TSI-Thin 0-5 yrs.	9/6/78	High
10	8.8	HW/WP #2	Wildlife Browse Cuts/Promote Mast Trees	9/6/78	Low
11	8.0	Hemlock (#3)	Harvest-15 years	9/6/78	Moderate-Low
12	7.5	RP/WP (#3/4)	For/Rec. Thin cut 10-15 yrs.	9/6/78	Moderate
13	5.8	Wetland (SS)	Protection	9/6/78	High
14	2.2	White Pine (#3)	Aesthetic Cut/ Thin 0-5 yrs	9/6/78	Moderate-High
15	31.4	WP Sawlogs (#3/4)	For/Rec Harvest ± 10 years	9/6/78	High
16	7.6	Abandoned Field	Wildlife-Field Release	9/6/78	Moderate
TOTAL ±	342				

Compartment #4

Tract Everett

Inventory Date 9/15/78

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No.
1	0.8	Abandoned Field	Wildlife Mgt. Release Field	9/15/78	Low
2	2.5	Open Field	Agr. Lease	9/15/78	High
3	1.4	Wetland (SS & M)	Wetland Protection	9/15/78	High
4	75.0	White Pine #3	Forestry-Harvest Check-20-30 yrs.	9/15/78	Moderate
5	16.3	White Pine 3/4	Forestry-Harvest 10-15 yrs.	9/15/78	Moderate
6	18.8	Abandoned Field	Wildlife Mgt.- Releases/5 yrs.	9/15/78	High
7	3.0	Red Pine Plantation 2/3	Forestry-TSI thin/5 yrs.	9/15/78	High
8	2.0	Red Pine Plantation (#3)	Check in 15 yrs. for harvest	9/15/78	High
9	10.3	Hardwood Swamp (#2)	Wetland Protection	9/15/78	High
10	42.2	Wetland (SS, M, HWs)	Wetland Protection	9/15/78	High
11	6.8	Hardwoods #3	Check in 30 yrs. for harvest.	9/15/78	Low
12	16.7	White Pine 2/3	TSI thin within 5-10 yrs.	9/15/78	Moderate-High
13	9.2	Abandoned Field	Wildlife Mgt.- Release 0-5 yrs.	9/15/78	High-Moderate
14	2.7	Hardwoods (2/3)	Leave as Wildlife mast	9/15/78	High
15	8.9	HW/Hem/WP #3	Check for harvest within 20 yrs.	9/15/78	Low-Moderate
16	16.3	White Pine #3	Check in 15 yrs. for harvest	9/15/78	Moderate
17	3.1	Abandoned Field	Promote wp rep. Check 15 yr for TSI	9/15/78	Low
18	8.5	Wetland HW swamp 2	Wetland Protection	9/15/78	High
19	8.7	White Pine (2/3)	Check in 10-15 yrs for TSI thin	9/15/78	Moderate-Low
TOTAL					

Compartment #4

Tract Everett

Inventory Date 9/15/78

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No.
20	2.2	Abandoned Field	Wildlife Mgt. Release/wp cover	9/15/78	Low
21	19.4	White Pine (2/3)	Check in 20 yrs. Forest Mgt.	9/15/78	Low
22	3.9	Abandoned Field	Wildlife Mgt. Release/wp cover	9/15/78	Low-Moderate
22 ± TOTAL	279				

Compartment 5

Tract Everett

Inventory Date 9/78

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No.)
1	6.1	Abandoned Field	Wildlife Mgt. Release	9/78	Moderate-High
2	16.0	White Pine #2/3	Forest Mgt. Check in 20 yrs.	9/78	Moderate-Low
3	1.7	Abandoned Field	Wildlife Mgt. Release/Browse cuts	9/78	Low-Moderate
4	39.0	Hardwoods #2/3	Wildlife-Den trees Mast production	9/78	Low-Moderate
5	6.9	HW/Hemlock #2/3	Forest Mgt.-Check in 30 yrs.	9/78	Low
6	3.0	White Pines #2	Forest Mgt. Leave as is	9/78	Low
7	7.0	Hardwoods # 2/3	Check in 20-25 yrs for wp harvest	9/78	Low
8	64.2	White Pine #4	Selective cut wp within 0-10 yrs.	9/78	High
9	18.8	Abandoned Field	Wildlife Mgt/Agr. Lease	9/78	High
10	2.0	HW/WP # 2	Leave as is	9/78	Low
11	0.6	Open water	Wildlife/Fishery Mgt.	9/78	Moderate
12	1.5	HW/SS swamp	Wetland Protection	9/78	High
13	14.0	Hemlock #2/3	Check for possible deer yard area	9/78	High-Moderate
14	10.8	HW/WP #2	Forestry-TSI thin 10-15 yrs.	9/78	Low
15	3.0	Hardwood #2	Leave as is	9/78	Low
16	11.5	Abandoned Field	Agr. Lease	9/78	High
17	15.0	Hardwoods #2/3	Leave as is-Check in 30 yrs.	9/78	Low
18	7.7	White Pine #2/3	Wildlife Mgt.-Release cut	9/78	Moderate
-Continued-					
OTAL					

Compartment 5
Continued

Tract Everett

Inventory Date 9/78

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No.)
19	9.8	Hemlock/WP #2/3	Wildlife Mgt.-cover area	9/78	Low-Moderate
20	9.2	Wetland (SS,M)	Wetland Protection	9/78	High
21	2.3	Field	Wildlife/Agr. Lease	9/78	High
22	1.3	Hardwoods # 2	Wildlife-Allow succession to cont.	9/78	Low
23	2.2	Field	Wildlife/Agr. Lease	9/78	High
24	4.6	Sand & Gravel	Road Maintained	9/78	Moderate-High
25	1.4	Hardwoods # 2	Allow succession to continue.	9/78	Low
26	1.5	Shrub swamp	Wetland Protection	9/78	High
27	3.2	WP/HW # 2/3	Allow succession to continue	9/78	Low-Moderate
28	8.2	HW/WP #2	Allow succession to con. Poss. browse cuts	9/78	Low
29	4.4	WP Plantation #3	Forest Mgt. TSI thin now	9/78	High
30	9.2	White Pine #3	Forestry-Check in 15 yrs.	9/78	Moderate
31	14.6	Red Pine Plantation #3	Forest Mgt.-TSI thin now	9/78	High
32	32.6	White Pine #3	Forest Mgt.-TSI thin & prune/10 yrs.	9/78	Moderate
TAL 32	± 335				

Compartment #6

Tract Everett

Inventory Date 9/12/78

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No.
1	18.2	Abandon Field	Wildlife Mgt. Burn & mow/5 yrs.	9/12/78	Moderate
2	3.0	Abandon Field	Prescribed Burn or mow/5 yrs.	9/12/78	High-Moderate
3	3.1	Hardwood (#2)	Protection-allow to grow	9/12/78	High
4	10.8	White Pine (3/4)	Forestry-Check in 10 yrs. (TSI)	9/12/78	Moderate
5	18.8	Wetland Shrub swamp	Protection	9/12/78	High
6	17.5	Abandon Field	Prescribed burn 0-5 yrs.	9/12/78	High-Moderate
7	1.7	White Pine (#3)	Recreational TSI thin & prune	9/12/78	Low-Moderate
8	7.2	Abandon Field	Agricultural Lease 0-5 yrs.	9/12/78	High
9	15.0	Hardwoods (#2)	Wildlife browse cuts	9/12/78	Moderate-Low
10	5.2	Agr. Field	Agr. Lease cont.	9/12/78	High
11	5.4	White Pine (#3)	Check in 15-20 yrs for harvest (TSI thin)	9/12/78	Moderate
12	38.6	White Pine (#3/4)	Check in 10 yrs for harvest. TSI now	9/12/78	Moderate
13	31.9	Wetland shrub swamp	Wetland Protection	9/12/78	High
14	28.4	White Pine 2/3	Forestry-TSI thin 0-5yrs. Ck 20-30yrs	9/12/78	Low-Moderate
15	0.9	Hardwoods 2/3	Wildlife Mgt. Release	9/12/78	Moderate-Low
16	6.0	Field/AF	Agricultural Lease cont.	9/12/78	High
17	0.9	Riparian hardwoods (#2)	Protect & Promote	9/12/78	High
18	1.2	Open water	Wildlife/Fishery Survey	9/12/78	Moderate
19	4.8	Wetland Hardwoods (#2)	Protection	9/12/78	High
Continued					
TOTAL					

Compartment #6

Tract Everett

Inventory Date 9/12/78

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No.
20	16.3	White Pine 2/3	Forestry-TSI thin 5-10 yrs.	9/12/78	High-Moderate
21	7.0	WP/HW (2/3)	Forestry-Check in 20-30 yrs-Harvest	9/12/78	Low
22	2.7	Abandon Field	Wildlife Mgt. Keep open	9/12/78	Moderate-High
22 ± TOTAL	245				

Compartment # 7

Tract Everett

Inventory Date 8/27/79

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No.)
1	7.7	Field	Agriculture/wildlife Keep open	8/27/79	High (1)
2	6.8	WP 2/4	Forestry crown thinning	8/27/79	Moderate (2)
3	29.0	WP, RO, RM 2	Forestry crown thinning	8/27/79	TSI 1979 High (1)
4	6.3	GB, RM 3	Wildlife Leave as is	8/27/79	Moderate (2)
5	17.2	Field	Agriculture Keep in cropland	8/27/79	High (1)
6	17.7	WP 3/5	Forestry Check in 10 yrs.	8/27/79	Low (3)
7	42.4	WP, RO, RM 2/4	Forestry Selection thin	8/27/79	TSI 1979 Moderate (2)
8	53.3	WP, RO, RM 3/5	Forestry/crown and low thin	8/27/79	Moderate (2)
9	49.7	SM, B YB 3/4	Forestry Selection thin	8/27/79	Moderate (2)
10	62.9	WP 3/4	Forestry crown thin	8/27/79	Moderate (2)
11	49.0	WP 3/5	Forestry crown thin	8/27/79	Low (3)
12	60.1	WP, RO, RM 2/4	Forestry Low thin	8/27/79	Moderate (2)
13	10.6	Flood control project-canal	Wildlife Keep open	8/27/79	Low (3)
14	19.8	Marsh	Wildlife Erect nest boxes	8/27/79	High (1)
15	12.6	GB, RM 2	Forestry Fuel wood	8/27/79	Low (3)
OW	7.1	Open water	Water resource	8/27/79	-
TOTAL	+/- 452	-	-	8/27/79	-

Compartment # 8

Tract Everett

Inventory Date 8/10/79

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No.
1	5.0	WP, HE 3/4	Forestry Low Thinning	8/10/79	Medium (2)
2	5.5	WP 3/4	Forestry Crown Thinning	8/10/79	High (1)
3	13.2	WP, RO, RM 2/5	Wildlife-Thin for browse production	8/10/79	Moderate (2)
4	7.8	WP, HE 2/4	Forestry Low Thinning	8/10/79	Low (3)
5	2.8	-	Historical/ Recreation	8/10/79	High (1)
6	4.2	WP, RO, RM 3/5	Forestry Crown Thinning	8/10/79	Moderate (2)
7	11.9	WP 2/4	Forestry Harvest	8/10/79	Moderate (2)
8	6.6	GB, RM 2	Wildlife Leave as is	8/10/79	High (1)
9	55.6	WP, RO, RM 2/4	Forestry-Commercial harvest & release cut	8/10/79	Moderate (2)
10	18.1	WP 3/4	Forestry-Commercial crown thin	8/10/79	Moderate (2)
11	24.4	Aspen	Wildlife Leave as is	8/10/79	High (1)
12	6.4	GB, RM 1	Forestry-Check in 20 yrs.	8/10/79	Low (3)
13	-	-	-	8/10/79	-
14	24.4	WP 3/4	Forestry-Commercial crown thin	8/10/79	Moderate (2)
15	8.0	WP, RO, RM 2/4	Forestry-Check in 20 yrs.	8/10/79	Low (3)
16	5.6	WP, HE 3/4	Forestry-Leave as is	8/10/79	Low (3)
17	3.4	WP, HE 3/4	Wildlife Leave as is	8/10/79	Low (3)
18	6.1	WP, HE 3/4	Wildlife Leave as is	8/10/79	Moderate (2)
19	15.8	WP, RO, RM 3/5	Wildlife-Protection Heron Rookery	8/10/79	High (1)
20	32.9	WP, RO, RM 3	Forestry-Low thin & cleaning	8/10/79	Moderate (2)
21	1.7	WP 2/4	Forestry Low thinning	8/10/79	Moderate (2)
TOTAL					

Compartment # 8

11-53

Tract Everett

Inventory Date 8/10/79

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Priority)
22	37.0	GB, RM 1/2	Forestry-Check in 20 yrs.	8/10/79	Low (3)
23	17.2	WP, RO, RM 3/4	Forestry-Low thinning	8/10/79	Low (3)
24	8.1	WP, RO, RM 2/4	Forestry-Release cut	8/10/79	Low (3)
25	27.2	Aspen 1	Wildlife-Aspen even age mgmt.	8/10/79	High (1)
26	9.9	WP 2/4	Forestry-Selection thin	8/10/79	High (1)
27	1.7	WP, RO, RM 1/4	Forestry-Check in 10 yrs.	8/10/79	Low (3)
28	3.0	WP 3/4	Forestry-Mechanical row thin	8/10/79	Moderate (2)
29	21.8	WP, RO, RM 2/4	Forestry-1 crown thin & release cut	8/10/79	Moderate (2)
30	31.7	WP 3	Forestry-Crown thin	8/10/79	Moderate (2)
31	34.4	WP 2/4	Forestry-Commercial thin	8/10/79	Moderate (2)
32	2.2	WP, HE 3/4	Wildlife-Shelter for wildlife	8/10/79	Low (3)
33	62.2	WP, HE 2/4	Forestry-crown thin release oak	8/10/79	Low (3)
34	43.2	GB, RM 2/3	Wildlife-Leave for cavity nesting birds	8/10/79	Moderate (2)
35	33.4	-	Wildlife-Wetland management	8/10/79	High (1)
36	4.4	WP 2/4	Forestry-Commercial crown thin	8/10/79	Moderate (2)
37	6.5	-	Agriculture-maintain	8/10/79	Moderate (2)
38	15.2	Dike	-	8/10/79	-
39	8.6	-	Wildlife-Erect more nesting boxes	8/10/79	High (1)
40	2.2	WP 2	Forestry-Check in 15 yrs.	8/10/79	Low (3)
41	6.3	WP, RO, RM	Forestry-Thin hdwds release pine	8/10/79	Low (3)
42	1.8	-	Wildlife-Buffer beaver	8/10/79	High (1)
TOTAL					

Compartment # 8

11-54

Tract Everett

Inventory Date 8/10/79

STATE-LAND FOREST INVENTORY

FOREST OPERATIONS SUMMARY

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Indicate Proj. No.
-	17.3	Open water	-	8/10/79	-
-	1.8	Rt 77 relocated	-	8/10/79	-
-	.5	Dike P-1	-	8/10/79	-
TOTAL	± 654				

Tract Honk.

Inventory Date 9/21/79

U.S. ARMY CORPS OF ENGINEERS

FOREST OPERATIONS SUMMARY

Compartment 1

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Proj. No.)
1	25.5	WP 4/5	Recreation	9/21/79	High (1)
2	15.5	WP, RO, RM 2/4	Forestry-Check in 20 years	9/21/79	Low (3)
3	38.3	WP	Forestry crown thin	9/21/79	Moderate (2)
4	66.2	Open	Wildlife/Recreation	9/21/79	High (1)
5	3.0	Shrub swamp	Wildlife; leave as is	9/21/79	Moderate (2)
6	4.1	WP, RO, RM	Forestry Weeding	9/21/79	High (1)
7	13.1	WP 4	Forestry crown thin	9/21/79	Low (3)
8	27.3	GB, RM	Wildlife; leave as is	9/21/79	Moderate (2)
9	11.4	WP, HE	Forestry crown thin	9/21/79	Moderate (2)
10	29.3	WP	Forestry crown thin	9/21/79	High (1)
11	35.8	WP, RO, RM	Wildlife Mast Production	9/21/79	Moderate (2)
12	3.0	WP 5	Forestry crown thin	9/21/79	High (1)
13	9.1	Marsh	Wildlife; Erect nest boxes	9/21/79	High (1)
14	91.7	Open Water	Water resource	9/21/79	High (1)

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Tract Hopk.

Inventory Date 6/20/80

U.S. ARMY CORPS OF ENGINEERS

FOREST OPERATIONS SUMMARY

Compartment 2

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Proj. No.)
1	24.5	WP, RO, RM	Water resources leave as is	6/20/80	Low (3)
2	14.8	WP, RO, RM 4	Water resources leave as is	6/20/80	Low (3)
3	24.9	GB, RM 2	Forestry leave as is	6/20/80	Low (3)
4	13.5	GB, RM 2	Water resources leave as is	6/20/80	Low (3)
5	10.9	GB, RM 2	Water resources maintain open	6/20/80	Moderate (2)
6	5.8	WP, RO, RM 4	Wildlife/Forestry check in 10 yrs.	6/20/80	Moderate (2)
7	7.6	SAND	Water resources Erosion control	6/20/80	High (1)
8	34.8	WP, RO, RM	Wildlife/Water resources maintain Bassett Mill Rd.	6/20/80	Moderate (2)
Open water	218.2	———	Water Resources/Wildlife Maintain nest Boxes	6/20/80	High (1)

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Tract Hopkinton

Inventory Date 7/1/80

U.S. ARMY CORPS OF ENGINEERS

FOREST OPERATIONS SUMMARY

Compartment 3

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Proj. No.)
1	14.9	WP, RO, RM	Forestry/ TSI Fuel wood cut	7/2	2 Mod
2	46.6	WP, RO, RM 4	Forestry/Water Resource Selection cut	7/2	1 High
3	24.0	SM, BE, YB 4	Forestry Selection & Crown thin	7/2	1 High
4	61.7	WP, HE 4	Forestry Selection cut	7/2	1 High
5	10.8	WP, RO, RM 3	Forestry ISI Crown cut for fuel wood	7/2	3 Low
6	86.2	WP, RO, RM 4	Forestry Selection cut	7/2	2 Mod
7	65.4	WP, RO, RM 3	Forestry Selection cut	7/2	2 Mod
8	28.0	WP 4		7/2	1 High
9	52.8	-	Water Resource/Wildlife	7/2	1 High
10	173.9	-	Water Resource/Wildlife	7/2	1 High

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Tract Hopkinton

Inventory Date 6/25/80

U.S. ARMY CORPS OF ENGINEERS

FOREST OPERATIONS SUMMARY

Compartment 4

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Proj. No.)
1	23.5	WP 4	Comb. Crown thin with small merch. cut	8/6/80	Moderate(2)
2	11.3	WP, RO, RM 4	Selection cut	8/6/80	High(1)
3	14.3	WP 4	Selection cut	8/6/80	High(1)
4	19.6	WP 4	Crowm thin	8/6/80	Moderate(2)
5	36.6	WP 4	Crown thin	8/6/80	High(1)
6	55.7	WP, RO, RM 4	Selection cut	8/6/80	High(1)
7	266.5	WP, RO, RM 3/4	Comb. selection cut & release thin	8/6/80	Low(3)
8	64.8	Open Water	Wildlife	8/6/80	Low(3)
9	27.1	GB, RM 1/2	Forestry/Wildlife	8/6/80	Low(3)
10	105.9	Field/Spillway	Wildlife/Water Resources	8/6/80	Moderate(2)
11	24.9	WP, RO, RM 3	Forestry/Wildlife	8/6/80	Moderate(2)
12	56.0	Wooded Marsh	Wildlife	8/6/80	High(1)
13	19.0	Wetlands	Wildlife	8/6/80	High(1)
14	4.3	Agri. Lease Fields	Agriculture	8/6/80	Moderate(2)
15	.6	WP 5	Forestry/Wildlife	8/6/80	Low(3)
16	.9	WP, RO, RM 3/4	Forestry	8/6/80	Low(3)
17	4.4	WP, RO, RM 3	Forestry	8/6/80	Low(3)
Dike	20.8	Dike	Water Control	8/6/80	
Total	756.2				

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Tract Hopkinton

Inventory Date 7/24/80

U.S. ARMY CORPS OF ENGINEERS

FOREST OPERATIONS SUMMARY

Compartment 5

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Proj. No.)
1	33.6	WP 3/4	Forestry/Selection cut		Moderate(2)
2	28.8	WP, RO, RM 4	Forestry/Selection cut		Moderate(2)
3	31.6	WP 4	Forestry/Selection cut		Moderate(2)
4	6.3	SM, B, YB 3	Forestry/Crown thin		Moderate(2)
5	34.0	WP, RO, RM 3	Forestry/Selection cut		Moderate(2)
6	16.2	WP, RO, RM 4	Forestry/Selection cut		Moderate(2)
7	6.4	WP, RO, RM 4	Forestry/Selection cut		Low (2)
8	46.1	WP 4/5	Forestry/Selection cut		Low (2)
9	48.3	WP, RO, RM 3	Forestry/Leave		Moderate(2)
10	39.2	WP 3/4	Recreation/Leave		Moderate(2)
11	114.8	GB, RM 1/2	Forestry/Wildlife		Low (3)
12	182.6	Field	Agriculture		Moderate(2)
13	35.1	Dikes			
14	8.8	Dam Office			
15	27.4	Swamp	Wildlife		High (1)
16	24.1	Elm Brook Area	Recreation		High (1)
17	157.8	Open Water			
Total	841				

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Tract Hopkinton

Inventory Date Aug 80

U.S. ARMY CORPS OF ENGINEERS

FOREST OPERATIONS SUMMARY

Compartment 6

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Proj. No.)
1	21.1	WP, RO, RM 3	Leave as is Forestry	8/28/80	Low 3
2	37.2	WP 4	Selection cut Forestry	8/28/80	Low 3
3	92.0	WP 3	Selection cut crown thin Forestry	8/28/80	Low 3
4	16.3	WP, RO, RM 3	Leave as is Forestry	8/28/80	Low 3
5	25.6	BA, E, RM 3	Leave as is Forestry	8/28/80	Low 3
6	43.9	WP, RO, RM 3	Leave as is Wildlife	8/28/80	Mod 2
7	6.4	Abandoned Fields	Periodic mowing to keep open Wildlife	8/28/80	High 1
8	1.2	Marsh	Leave as is Wildlife	8/28/80	Low 3
9	1.0	BS, T 1	Leave as is Bog Wildlife	8/28/80	High 1
10	17.2	Agricultural Lease	Agriculture	8/28/80	High 1
	262				

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Tract Hopk.

Inventory Date 8/29/80

U.S. ARMY CORPS OF ENGINEERS

FOREST OPERATIONS SUMMARY

Compartment 7

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Proj. No.)
1	29.2	WP, RO, RM 3	Forestry Crown thin	8/29/80	Moderate(2)
2	25.3	WP 4	Forestry Future check	8/29/80	Moderate(2)
3	17.7	BA, E, RM 3	Wildlife Leave as is	8/29/80	Low(1)
4	4.2	WP, RO, RM 3	Forestry Future Check	8/29/80	Low(3)
5	.9	Field	Wildlife Periodic mowing	8/29/80	Low(1)
6	14.3	WP 4	Forestry Crown thin	8/29/80	Moderate(2)
7	19.1	WP 2	Forestry Leave as is	8/29/80	Low(3)
8	118.1	Fields	Agriculture	8/29/80	High(1)
9	69.6	WP 4	Forestry Future Check	8/29/80	Moderate(2)
10	.5	Boat Launch	Repair	8/29/80	High(1)
11	13.9	GB, RM 3	Wildlife Leave as is	8/29/80	High(1)
12	32.0	WP, RO, RM 3	Wildlife Water Resource, Agriculture,	8/29/80	High(1)
13	9.9	GB, RM 2	Wildlife Periodic cutting	8/29/80	High(1)
14	7.1	R/R	Keep Open	8/29/80	Low(3)
Total	362				

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Tract Hopkinton

Inventory Date 9/9/80

U.S. ARMY CORPS OF ENGINEERS

FOREST OPERATIONS SUMMARY

Compartment 8

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Proj. No.)
1	47.9	WP, RO, RM 3	Check in 10 years. Forestry		Low (3)
2	13.3	WP 3	Leave & Check 15 yrs. Forestry		Low (3)
3	19.1	WP 3	Crown thin Forestry		Mod (2)
4	19.6	WP 4	Crown thin Select cut Forestry		Mod (2)
5	11.4	WP, HE 3	Shelter check 5 yrs. For/Wld		Mod (2)
6	12.9	WP 4	Check 10 yrs. Forestry		Low (3)
7	16.6	WP, RO, RM 3	Shelter check 10 yrs. For/Wld		Mod (2)
8	7.3	RP 3	Thin Forestry		High (1)
9	17.2	Alder	Wildlife Periodic cutting		High (1)
10	16.5	Abandoned Fields	Wildlife Periodic mowing		Mod (2)
11	17.6	Agricultural Fields	Agricultural leases		High (1)
12	17.2	Marsh	Wildlife		High (1)
13	155.4	GB, RM 2	Wildlife Further studies		High (1)
14	76.5	GB, RM 3	Forestry check 20 yrs.		Low (3)
15	1.7	-	Recreation		High (1)
16	12.4	Open Water	Water Resources		High (1)

Tract Hopkinton

Inventory Date 9/2/80

U.S. ARMY CORPS OF ENGINEERS

FOREST OPERATIONS SUMMARY

Compartment 9

Stand No.	Acres	Forest Type-Size Class	Recommended Operations	Date	Status (Proj. No.)
1	38.7	WP, RO, RM 4	Forestry (Leave)		Low (3)
2	3.9	Marsh	Wildlife		Med (2)
3	33.8	Field	Forestry		Low (3)
4	201.5	Leased Agriculture	Agri.		High (1)
5	1.8	GB, RM 2	Forestry (Leave)		Low (3)
6	2.9	P.P 3	Wildlife (leave)		Mod (2)
7	105.7	WP, RO, RM 3/4	Forestry Agriculture		Low (3)
8	115.5	WP, RO, RM 3/4	Forestry (leave)		Low (3)
9	6.3	Field	Recreation		High (1)

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Table 9
Hopkinton Lake - Compartments
Forest Inventory

VEGETATIVE COVER TYPES

Cover Types/w(Acreages)

Compartment	Softwood	Hardwood	Mix	Open Areas R/R AF/F/S&G	Open Water	Wetlands	Maintained Areas Dike (Rec/Proj)	Total Acreages
1	120.6	27.3	55.4	66.2	91.7	12.1	-	373.3
2	-	49.3	79.9	7.6	218.2	-	-	355
3	89.7	24.0	223.9	-	-	226.7	-	564
4	94.6	27.1	363.7	110.2	64.8	75.0	20.8	756
5	150.5	121.1	133.7	182.6	157.8	27.4	68.0	841
6	130.2	25.6	81.3	23.6	1.2			262
7	128.3	41.5	65.4	126.1	-	-	.5	362
8	83.6	249.5	64.5	34.1	12.4	17.2	1.7	463
9	2.9	1.8	259.9	235.3	-	3.9	6.3	510
Total	800.4	567.2	1,327.7	785.7	546.1	362.3	97.3	4,486

Table 9
Everett Lake
Forest Inventory
Compartments 1-8

VEGETATIVE COVER TYPES

Cover Types/w(Acreages)

Compartment	Softwood	Hardwood Mix		Open Areas AF/F/S&G	Open Water	Wetlands	Maintained Areas Dike (Rec/Proj)	Total Acreages
1	128.3	77.7	61.3	79.5	0	28		± 385
2	74.1	34.5	89.3	15.2	4.0	54.3	58.1	± 330
3	222.2	21.1	8.8	7.6	0	33.1	48.8	± 342
4	154.4	9.5	8.9	40.5	0	62.4		± 279
5	175.5	66.7	31.1	47.2	0.6	12.1		± 335
6	101.2	19.9	7.0	59.8	1.2	55.5		± 245
7	196.4	62.3	124.7	24.9	7.1	26.1	10.6	± 452
8	221.3	80.2	200.5	64.0	17.0	51.0	18.5	± 654
Totals	1273.5	371.9	532.2	338.7	29.9	322.5	136.0	±3022

Table 10
Compartment, SAF Type and Acre Breakdowns
of Merchantable Timber
Everett Lake

COMPARTMENT	COMPARTMENT ACRES	MERCHANTABLE TIMBER STANDS								
		Red Pine			GB, RM			WP, RO, RM		
		ACRES	VOL IN BF	% of Compt	ACRES	VOL IN BF	% of Compt	ACRES	VOL IN BF	% of Compt
1	385							111.1	458,076	28.8
2	330							64.8	260,954	19.6
3	342	25.2	445,214	7.4				12.1	82,946	3.5
4	279							26.0	140,940	9.3
5	335	14.6	114,181	4.4				81.9	331.031	24.4
6	245									
7	452				12.6	14,373	2.8	184.8	1,373,429	40.9
8	654				37.0	55,633	5.6	184.8	2,001,493	28.3

Table 10(cont)
COMPARTMENT, SAF TYPE AND ACRE BREAKDOWN
OF MERCHANTABLE TIMBER
Everett Lake

COMPARTMENT	COMPARTMENT ACRES	MERCHANTABLE TIMBER STANDS								
		WP			WP, HEM			SM, BE, YB		
		ACRES	VOL IN BF	% of Compt	ACRES	VOL IN BF	% of Compt	ACRES	VOL IN BF	% of Compt
1	385	64.8	792,486	16.8	47.9	289,191	12.4			
2	330	69.3	298,455	21.0	23.4	173,040	7.1	12.0	56,230	3.6
3	342	193.9	2,418,585	56.7	8.0	79,376	2.3			
4	279	152.4	1,398,970	54.6						
5	335	146.6	1,697,374	43.8	9.8	70,334	2.9			
6	245	99.5	802,591	40.6	7.0	12,341	2.8			
7	452	136.4	1,839,514	30.2				49.7	384,887	11.0
8	654	145.0	2,059,493	22.2	92.3	1,014,957	14.1			

Table 10(cont)
COMPARTMENT, SAF TYPE AND ACRE BREAKDOWN
OF MERCHANTABLE TIMBER

Everett

COMPARTMENT	COMPARTMENT ACRES	MERCHANTABLE TIMBER STANDS SM, BASSWOOD			OTHER-UNCERCHANTABLE TIMBER STANDS AND NON-FOREST AREAS	
		ACRES	VOL IN BF	% of COMPT	ACRES	% of COMPT
1	385				161.2	41.9
2	330	11.3	72,335	3.4	149.2	45.2
3	342				102.8	30.1
4	279				100.6	36.1
5	335				82.1	24.5
6	245				138.5	56.5
7	452				68.5	15.2
8	654				194.9	29.8

Table 10
COMPARTMENT, SAF TYPE AND ACRE BREAKDOWN
OF MERCHANTABLE TIMBERS
Hopkinton Lake

COMPARTMENT	COMPARTMENT ACRES	MERCHANTABLE TIMBER STANDS								
		RP			WP, RO, RM			WP		
		ACRES	VOL IN BF	% OF COMPT	ACRES	VOL IN BF	% OF COMPT	ACRES	VOL IN BF	% of COMPT
1	373				55.4	415,053	14.8	109.2	1,261,133	29.3
2	355				79.9	442,219	22.5			
3	564				224.0	1,988,640	39.7	28.0	387,425	5.0
4	756				333.5	3,009,263	44.1	94.0	1,569,344	12.4
5	841				85.4	1,097,110	10.2	150.5	2,486.142	17.9
6	262				81.3	584,439	31.0	129.2	1,319,643	49.3
7	362				33.4	376,788	9.2	109.2	900,993	30.2
8	463	7.3	56,678	1.6	64.5	710,591	13.9	64.9	1,026,735	14.0
9	510				154.2	1,453,974	30.2			

Table 10(cont)

COMPARTMENT, SAF TYPE AND ACRE BREAKDOWN
OF MERCHANTABLE TIMBER
Hopkinton Lake

COMPARTMENT	COMPARTMENT ACRES	MERCHANTABLE TIMBER STANDS								
		WP, HEM			SM, BE, YB					
		ACRES	VOL IN BF	% OF COMPT	ACRES	VOL IN BF	% OF COMPT	ACRES	VOL IN BF	% OF COMPT
1	373	11.4	104,674	3.1						
2	355									
3	564	61.7	885,698	10.9	24.0	251,376	4.2			
4	756									
5	841				6.3	29.025	.7			
6	262							25.6	146,970	9.8
7	362									
8	463	11.4	213,100	2.5						
9	510									

Table 10(cont)
COMPARTMENT AND ACRE BREAKDOWN
OF UNMERCHANTABLE TIMBER
STANDS AND NON-FOREST AREAS
Hopkinton Lake

COMPARTMENT	COMPARTMENT ACRES	OTHER UNMERCHANTABLE TIMBER STANDS AND NON-FOREST AREAS	
1	373	197.3 ac	52.8%
2	355	275.1 ac	77.5%
3	564	226.7 ac	40.2%
4	756	328.7 ac	43.5%
5	841	598.9 ac	71.2%
6	262	25.8 ac	9.9%
7	362	219.2 ac	60.6%
8	463	314.5 ac	68.0%
9	510	355.9 ac	69.8%

CORPS OF ENGINEERS

U.S. ARMY

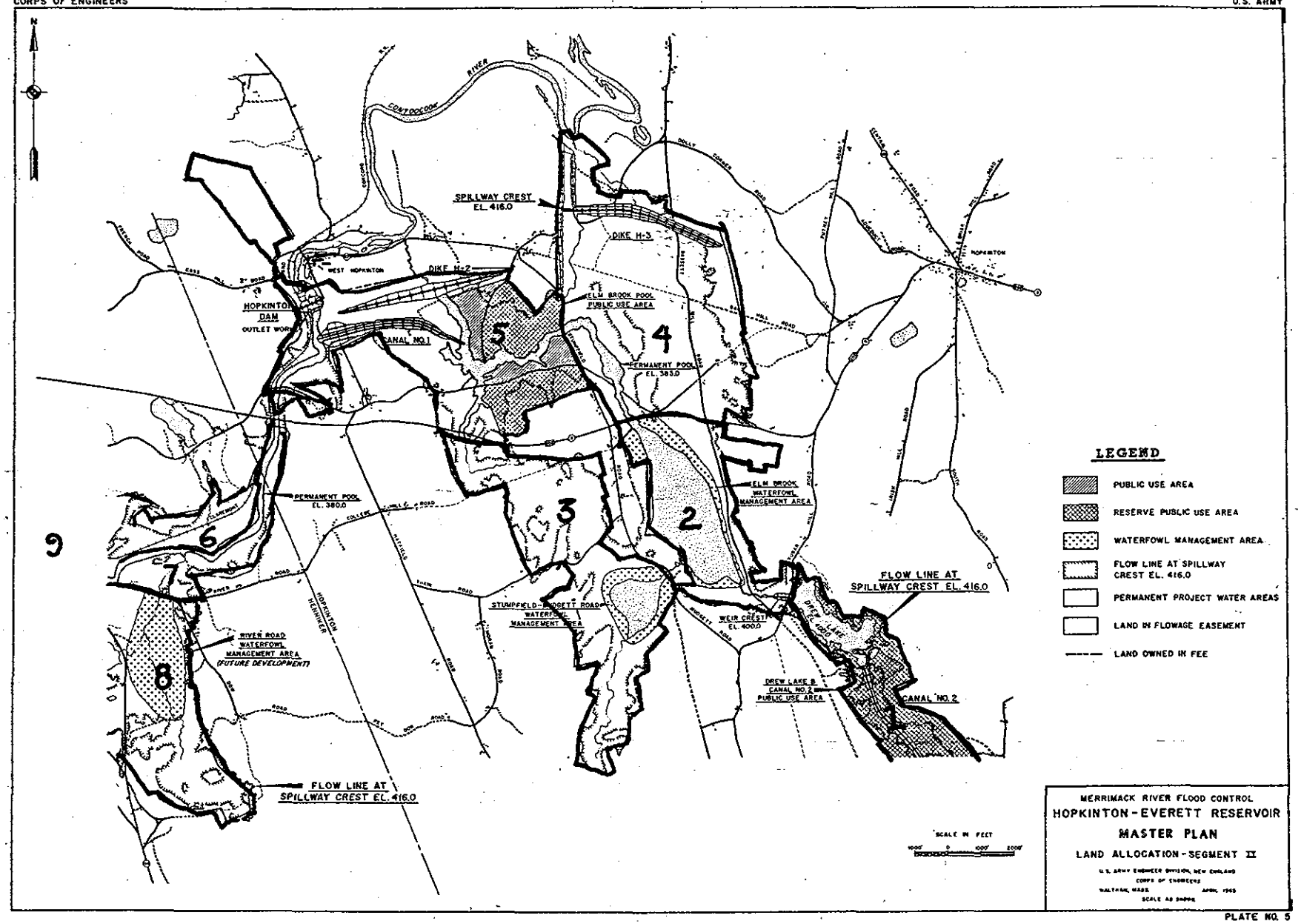


PLATE NO. 5

HOPKINTON FOREST COMPARTMENTS

11-72

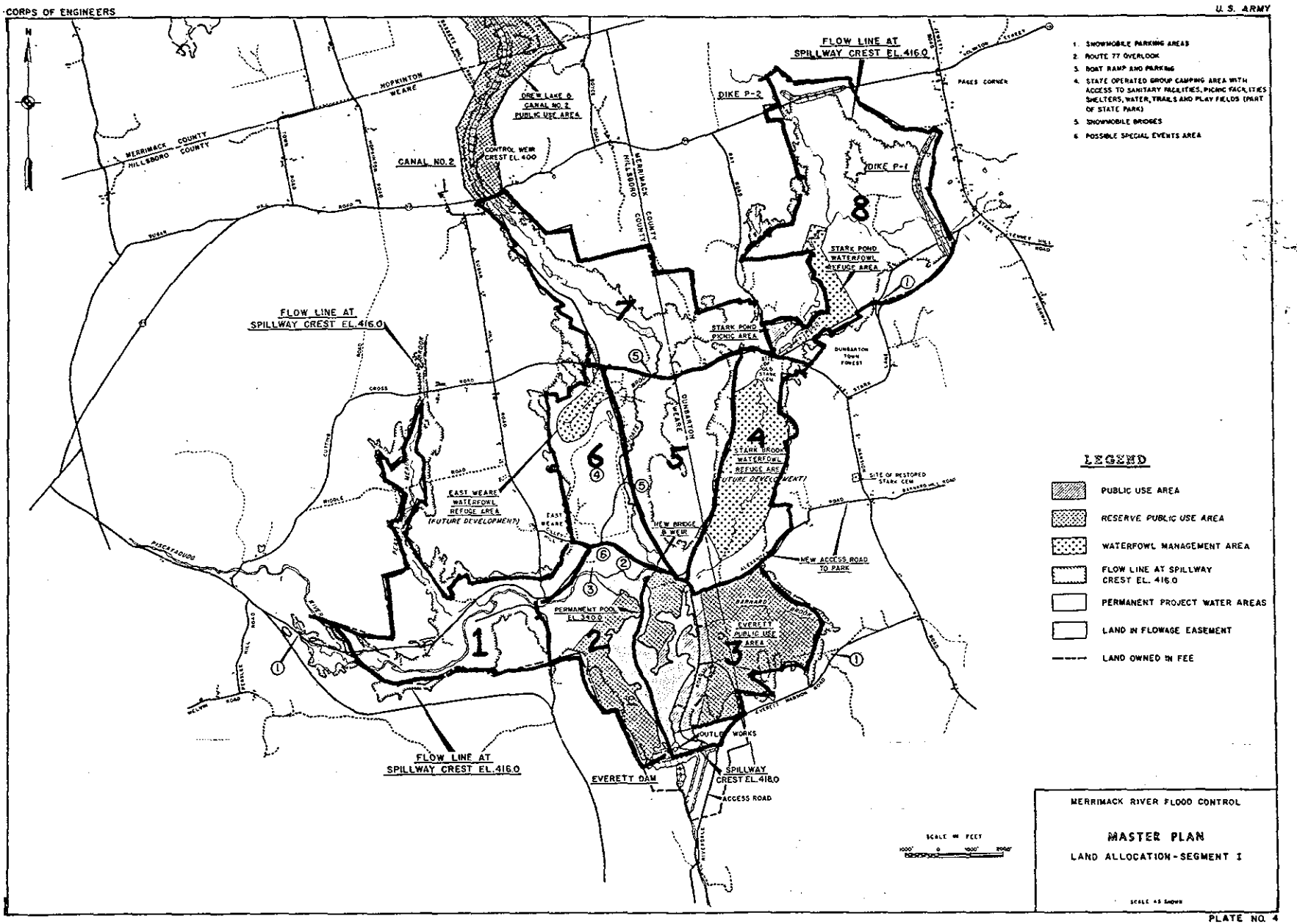
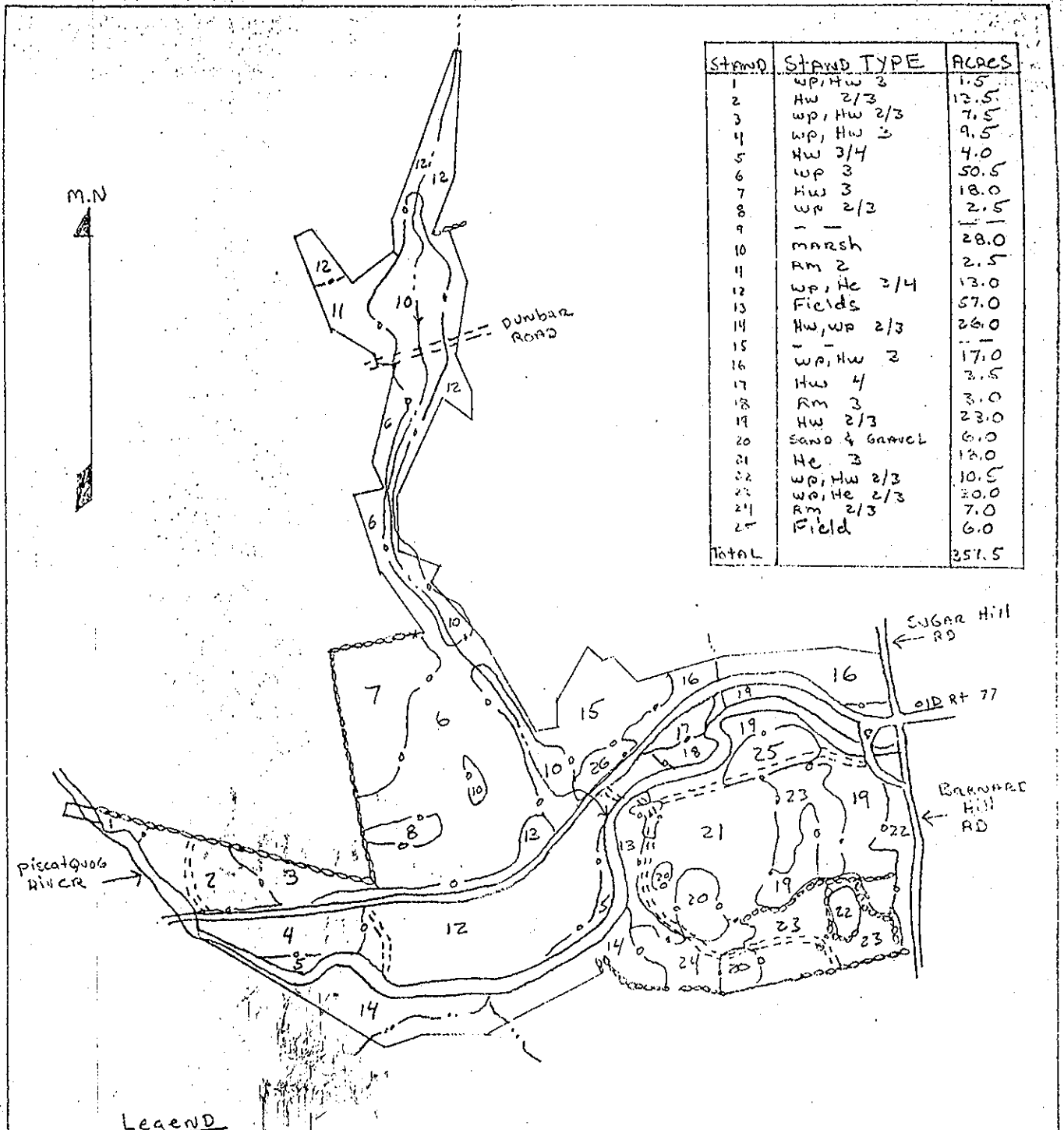


PLATE NO. 4

EVERETT FOREST COMPARTMENTS



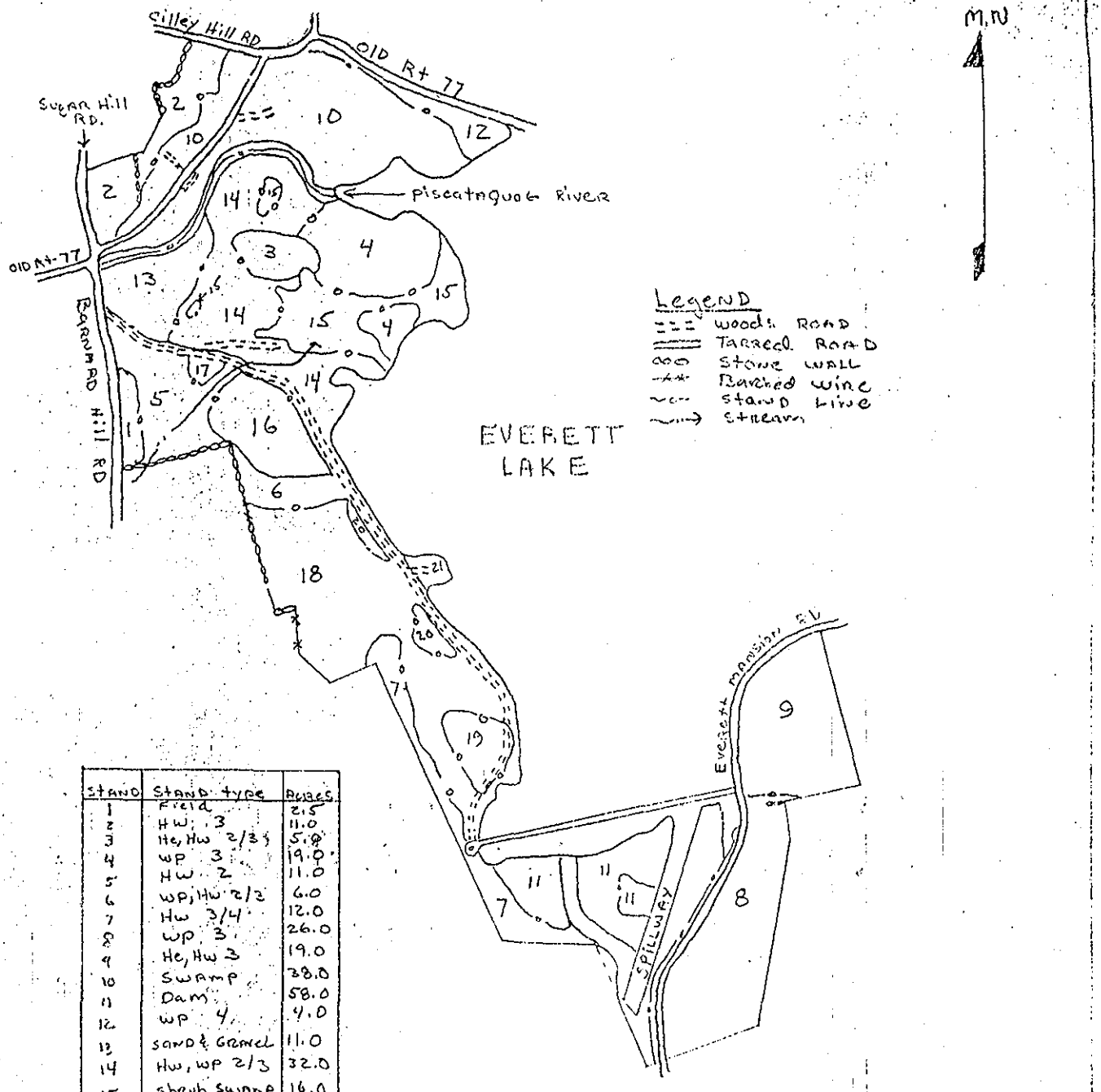
STAND	STAND TYPE	ACRES
1	WP, HW 3	1.5
2	HW 2/3	13.5
3	WP, HW 2/3	7.5
4	WP, HW 3	9.5
5	HW 3/4	4.0
6	WP 3	50.5
7	HW 3	18.0
8	WP 2/3	2.5
9	— —	—
10	MARSH	28.0
11	RM 2	2.5
12	WP, HE 3/4	13.0
13	FIELDS	57.0
14	HW, WP 2/3	26.0
15	— —	—
16	WP, HW 2	17.0
17	HW 4	3.5
18	RM 3	3.0
19	HW 2/3	23.0
20	SAND & GRAVEL	6.0
21	HE 3	18.0
22	WP, HW 2/3	10.5
23	WP, HE 2/3	30.0
24	RM 2/3	7.0
25	FIELD	6.0
TOTAL		351.5

STAND TYPE MAP

STATE OF NEW HAMPSHIRE
DEPT. OF RESOURCES & ECONOMIC DEV.

EVERETT LAKE

WEARE - DUNBARTON, NEW HAMPSHIRE
COMPARTMENT # 1
AUGUST, 1978
265.0 ACRES SCALE 1" = 1200'
DRAWN BY S. K. SALAM



STAND	STAND TYPE	ACRES
1	Field	2.5
2	HW, 3	11.0
3	He, Hw 2/3	5.0
4	WP 3	19.0
5	HW 2	11.0
6	WP, HW 2/3	6.0
7	Hw 3/4	12.0
8	WP 3	26.0
9	He, Hw 3	19.0
10	SWAMP	38.0
11	Dam	58.0
12	WP 4	4.0
13	SAND & GRAVEL	11.0
14	Hw, WP 2/3	32.0
15	Shrub swamp	16.0
16	WP 2/3	13.0
17	SAND & GRAVEL	2.0
18	Hw, WP 2/3	33.0
19	RP 1	5.5
20	OPEN WATER	4.0
21	WP 4	2.0
TOTAL		330.0

STAND TYPE MAP

State of New Hampshire
Dept of Resources & Economic Dev.

EVERETT LAKE

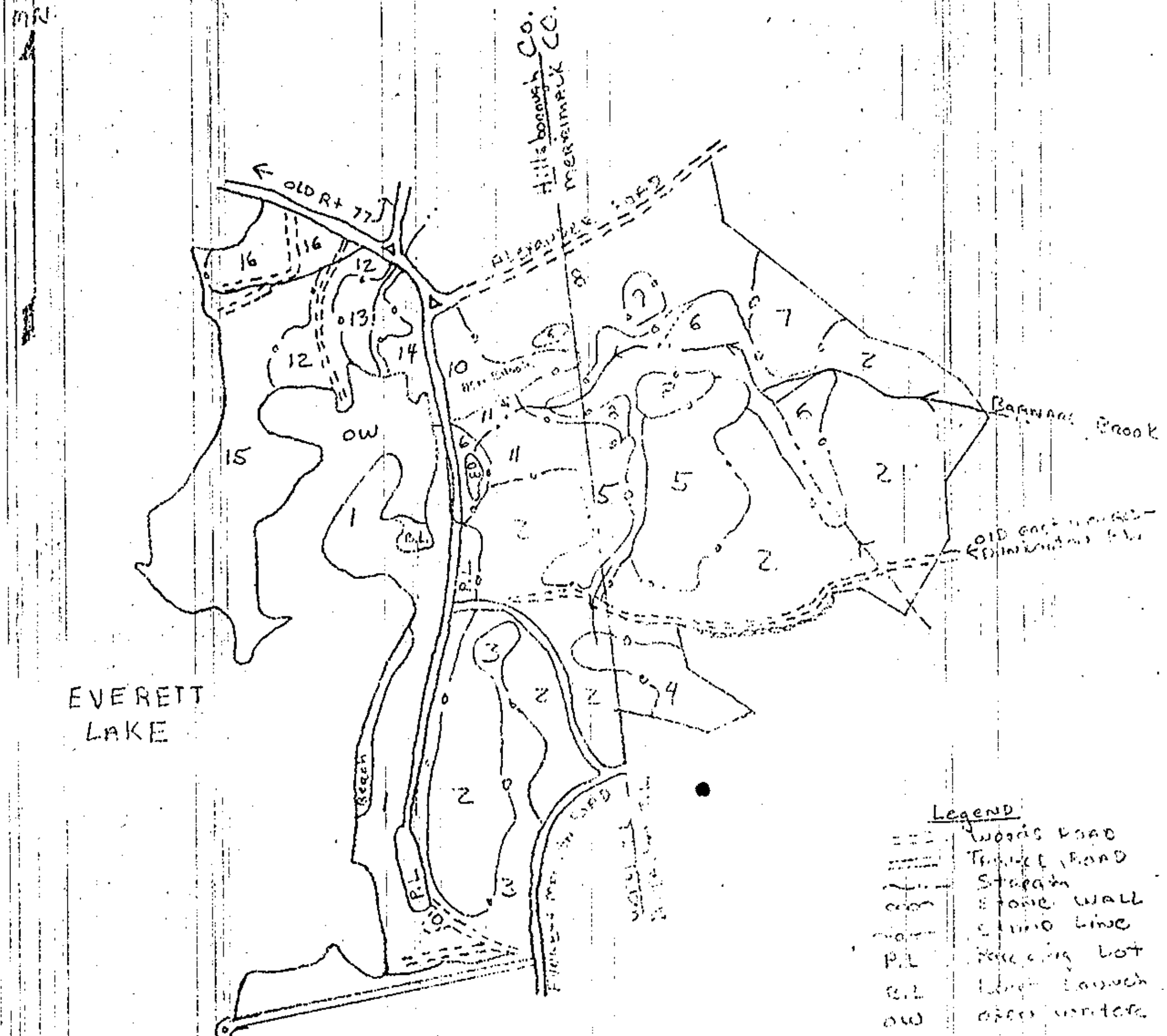
Weare - Dunbarton, New Hampshire

Compartment # 2

August, 1978

330.0 ACRES Scale 1" = 1200'

DRWN BY: N. SALAMY



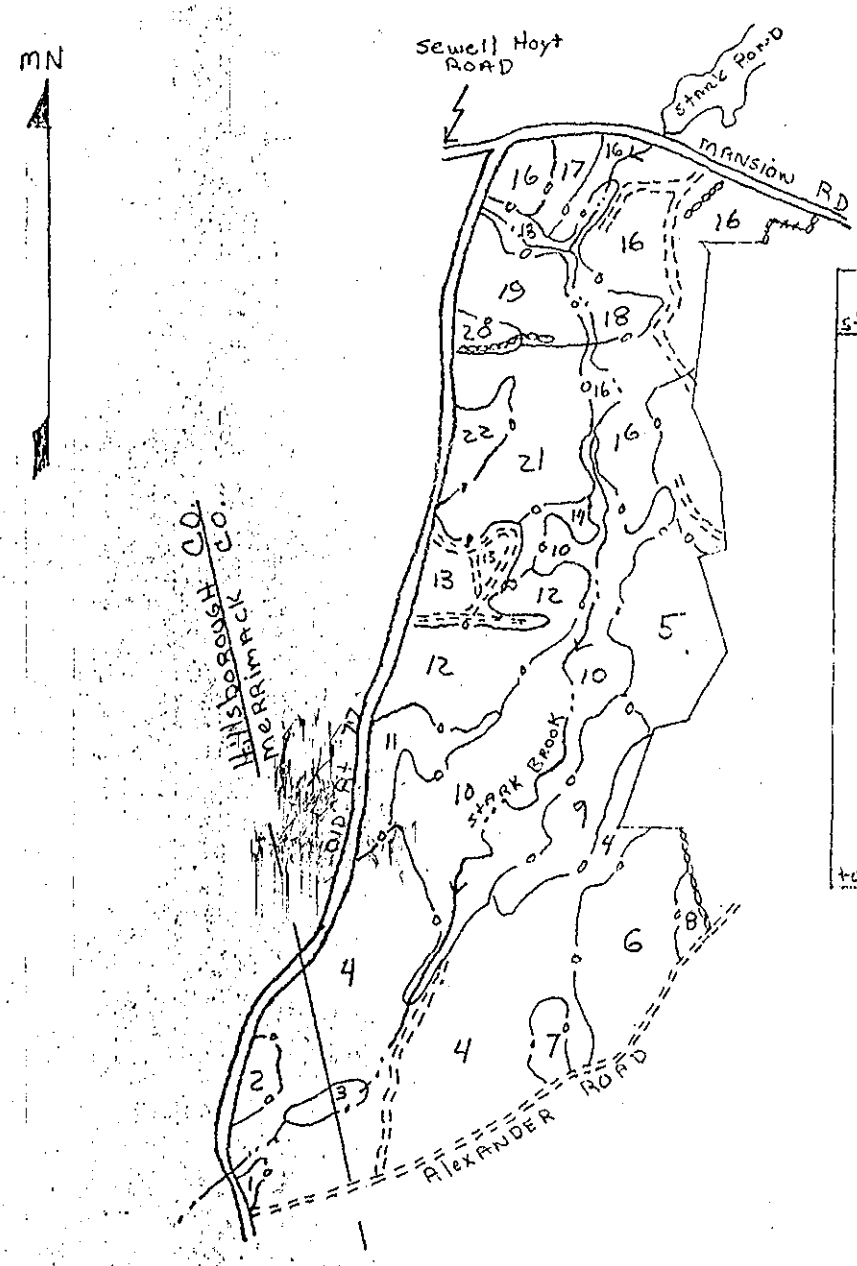
STAND	Stand type	Acres
1	State Park	49.0
2	wp 4	[illegible]
3	HW 2/3	[illegible]
4	Hw 2/3	9.0
5	RP 4	[illegible]
6	Hw 2	27.0
7	wp 2	9.0
8	wp 3/4	37.0
9	hw 3	[illegible]
10	Hw, wp 2	9.0
11	He 3	8.0
12	RP, wp 3/4	7.5
13	Shrub Swamp	6.0
14	wp 3	[illegible]
15	wp 3/4	31.5
16	Field	7.0
total		341.5

STAND TYPE MAP

State of New Hampshire
Dept. of Resources & Economic Dev.

EVERETT LAKE

Weare - Dunbarton, New Hampshire
Compartment # 3
August, 1979
[illegible] acres   scale 1" = 1200'
Drawn by K. [illegible]



STAND	STAND TYPE	ACRES
1	Field	1.0
2	Field	2.5
3	shrub swamp	1.5
4	WP 3	75.0
5	WP 3/4	16.0
6	Field	19.0
7	RP 2/3	3.0
8	RP 3	2.0
9	Rm swamp	10.0
10	shrub swamp	42.0
11	HW 3	7.0
12	WP 2/3	17.0
13	Field	9.0
14	HW 2/3	3.0
15	HW-HE-WP 3	9.0
16	WP 3	16.0
17	Field	2.0
18	Rm swamp	8.5
19	WP 2/3	9.0
20	Field	2.0
21	WP 2/3	19.5
22	Field	4.0
TOTAL		279.0

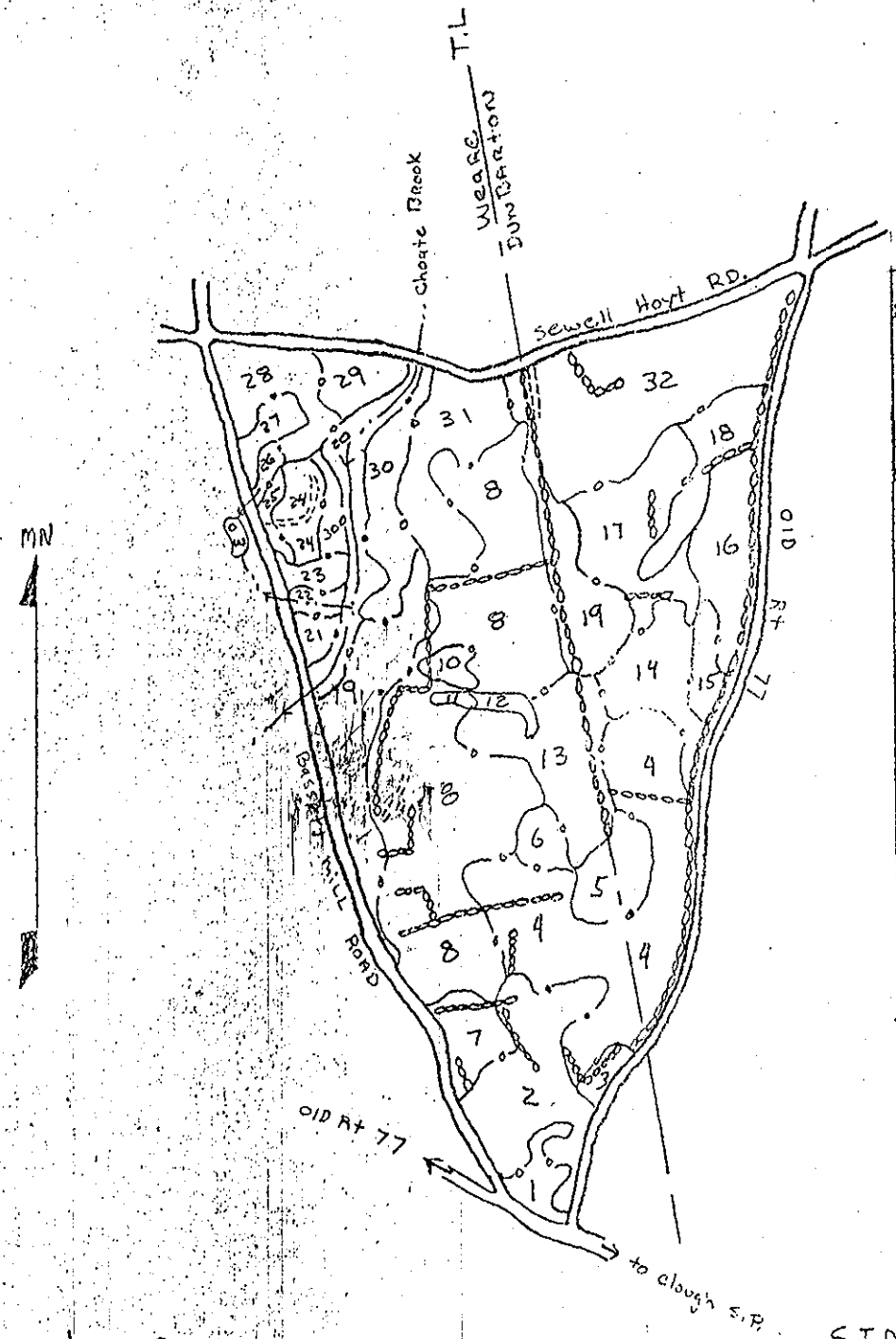
Legend
- Dirt Road
- Woods Road
- Stone Wall
- Barbed wire
- Intermittent stream
- STAND Line

STAND TYPE MAP

State of New Hampshire
Dept. of Resources & Economic Dev.

EVERETT LAKE

Weare-Dunbarton, New Hampshire
Compartment #: 4
August, 1979
279.0 ACRES Scale 1" = 1200'
Drawn by: K. Salamy



Stand	Stand type	Acres
1	Field	6.0
2	wp 2/3	16.0
3	Field	2.0
4	Hw 2/3	39.0
5	Hw, He 2/3	7.0
6	wp 2	3.0
7	Hw 2/3	7.0
8	wp 4	64.0
9	Field	19.0
10	Hw, wp 2	2.0
11	Pond	1.0
12	swamp	1.5
13	He 2/3	14.0
14	Hw/wp 2	11.0
15	Hw 2	3.0
16	Field	11.5
17	Hw 2/3	15.0
18	wp 2/3	7.5
19	He, wp 2/3	10.0
20	shrub swamp	9.0
21	Field	2.0
22	Hw 2	1.5
23	Field	2.0
24	Gravel pit	4.5
25	Hw 2	1.5
26	Shrub swamp	1.5
27	wp, Hw 2/3	3.0
28	Hw, wp 2	8.0
29	wp 3	4.5
30	wp 3	9.0
31	RP 2	141.5
32	wp 2	32.5
total		333.0

Legend
- Stone wall
- Dirt Road
- Woods Road
- Intermittent stream
- Stand Line
- ow open water

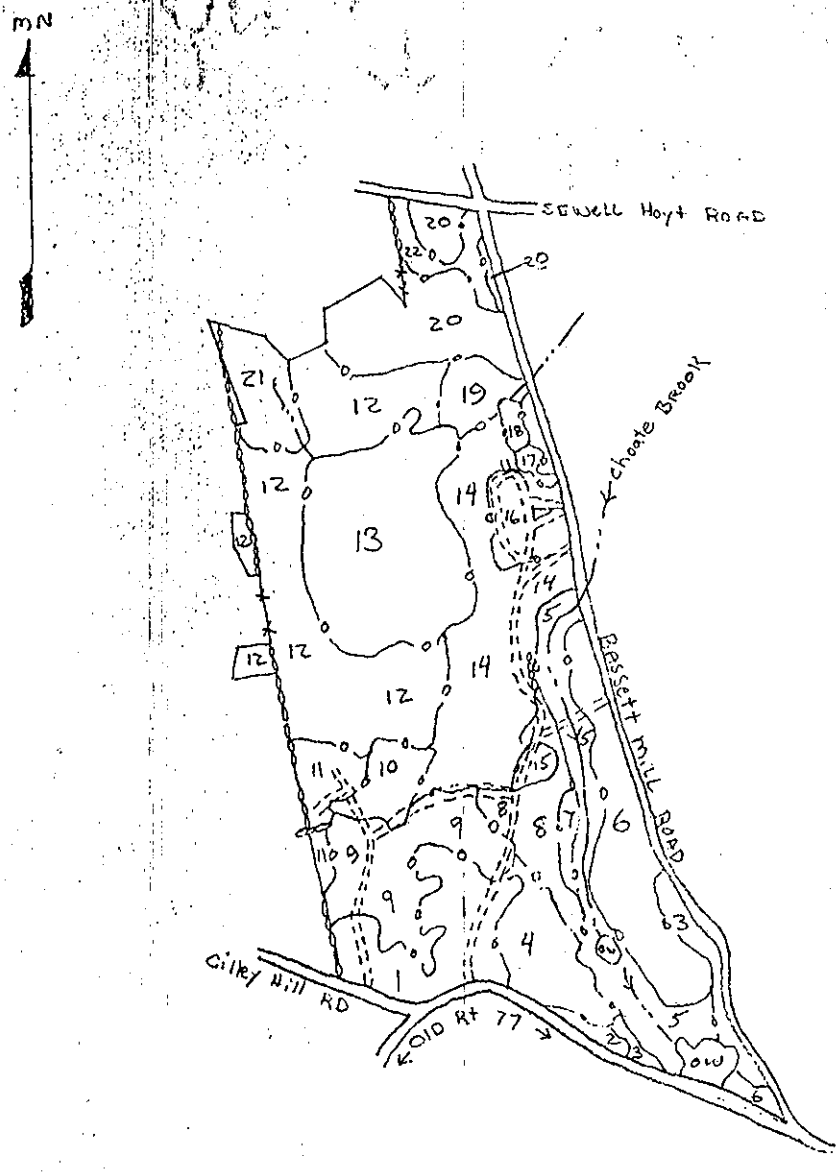
STAND TYPE MAP

State of New Hampshire
Dept. of Resources & Economic Dev.

EVERETT LAKE

Weare - Dunbarton, New Hampshire
Compartment # 5
August, 1979
333.0 Acres Scale 1" = 1200'
Drawn by: K. Sklamy

Stand	Stand type	Acres
1	Field	18.0
2	Field	2.0
3	Rm 2	3.0
4	WP 3/4	11.0
5	shrub swamp	19.0
6	Field	17.5
7	WP 3	2.0
8	Field	7.0
9	GC, A 2	15.0
10	Field	5.0
11	WP 3	5.5
12	WP 3/4	38.5
13	shrub swamp	22.0
14	WP 2/3	28.5
15	GC, A 2/3	1.0
16	Field	6.0
17	Rm 2	1.0
18	Pond	1.0
19	Rm swamp	5.0
20	WP 2/3	16.0
21	WP-Hw 2/3	7.0
22	Field	3.0
total		245.0



Legend

- Stone wall
- Barbed wire
- Intermittent stream
- Dirt road
- Woods road
- Stand line
- OW open water

STAND TYPE MAP

State of New Hampshire
Dept. of Resources & Economic Dev.

EVERETT LAKE

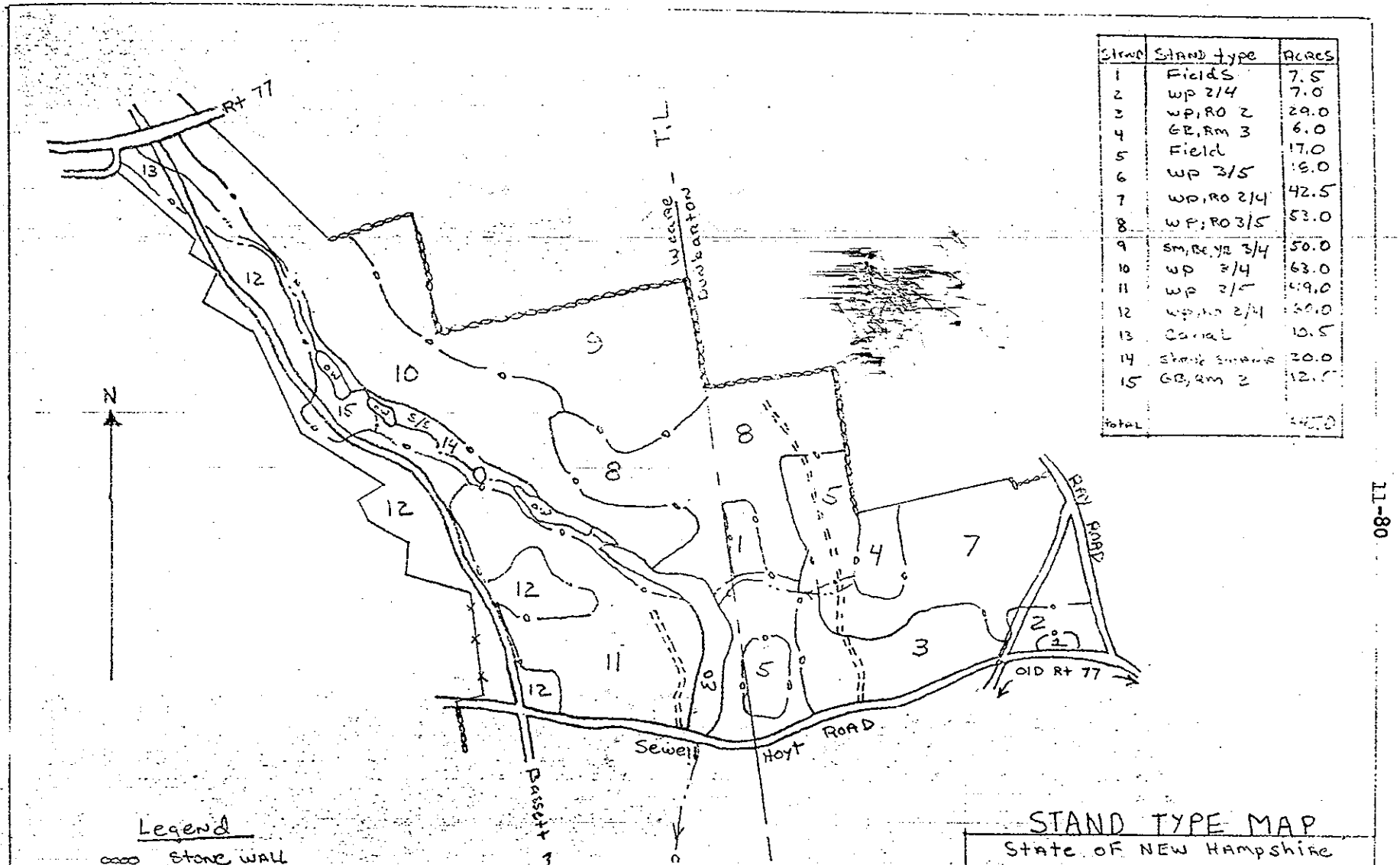
Weare - Dunbarton, New Hampshire

Compartment # 6

August, 1979

245.0 acres Scale 1" = 12.00'

Drawn by: K. Salamy



Stand	Stand type	Acres
1	Fields	7.5
2	wp 2/4	7.0
3	wp, RO 2	29.0
4	GB, Rm 3	6.0
5	Field	17.0
6	wp 3/5	16.0
7	wp, RO 2/4	42.5
8	WF; RO 3/5	53.0
9	Sm, Be, Yb 3/4	50.0
10	wp 3/4	63.0
11	wp 2/-	49.0
12	wp, Rm 2/4	60.0
13	Canal	10.5
14	Shrub Swamp	20.0
15	GB, Rm 2	12.5
total		452.0

Legend

- Stone wall
- Barbed wire
- Dirt road
- Woods road
- Stand line
- OW open water
- S/S Shrub Swamp
- Intermittent stream

STAND TYPE MAP

State of New Hampshire
Dept. of Resources & Economic Dev.

EVERETT LAKE

Compartment #7

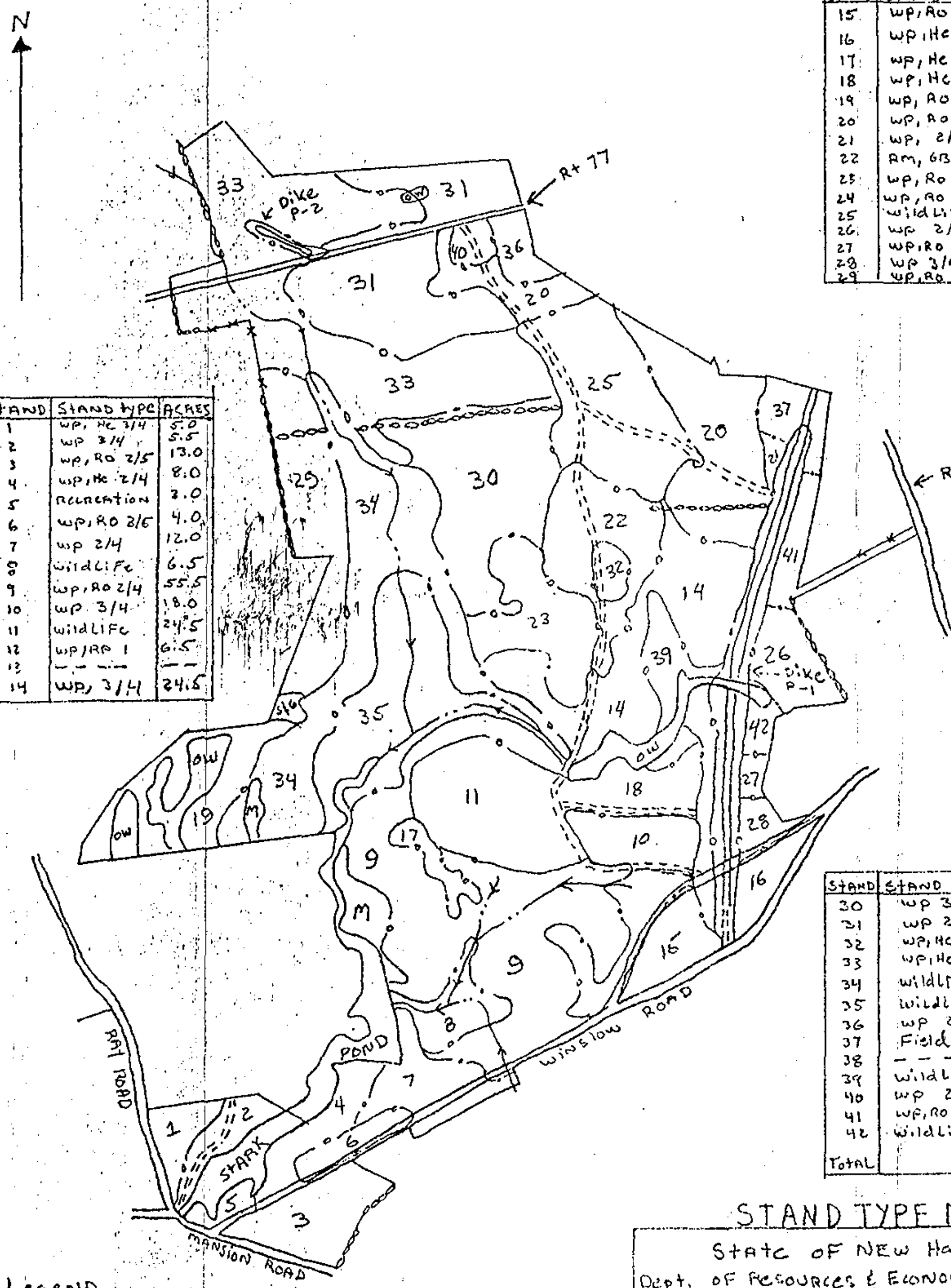
WCARE – Dunbarton New Hampshire

August, 1979

452.0 Acres Scale 1" = 1200'

Drawn by K. Salmy

11-80



STAND	STAND type	ACRES
1	wp, He 3/4	5.0
2	wp 3/4	5.5
3	wp, RO 2/5	13.0
4	wp, He 2/4	8.0
5	Recreation	3.0
6	wp, RO 3/5	4.0
7	wp 2/4	12.0
8	wildlife	6.5
9	wp, RO 2/4	55.5
10	wp 3/4	18.0
11	wildlife	24.5
12	wp/RP 1	6.5
13	— — —	— —
14	wp, 3/4	24.5

STAND	STAND type	ACRES
15	wp, RO 2/4	8.0
16	wp, He 3/4	5.5
17	wp, He 3/4	3.5
18	wp, He 3/4	6.0
19	wp, RO 3/5	16.0
20	wp, RO 3	33.0
21	wp, 2/4	2.0
22	Rm, GB 1/2	37.0
23	wp, RO 3/4	17.0
24	wp, RO 2/4	8.0
25	wildlife	27.0
26	wp 2/4	10.0
27	wp, RO 1/4	2.0
28	wp 3/4	2.0
29	wp, RO 2/4	22.0

STAND	STAND type	ACRES
30	wp 3	31.5
31	wp 2/4	24.5
32	wp, He 3/4	2.0
33	wp, He 2/4	62.0
34	wildlife	43.0
35	wildlife	33.5
36	wp 2/4	4.5
37	Field	6.5
38	— — —	— —
39	wildlife	8.5
40	wp 2	2.0
41	wp, RO 3	6.0
42	wildlife	2.0
Total		622.0

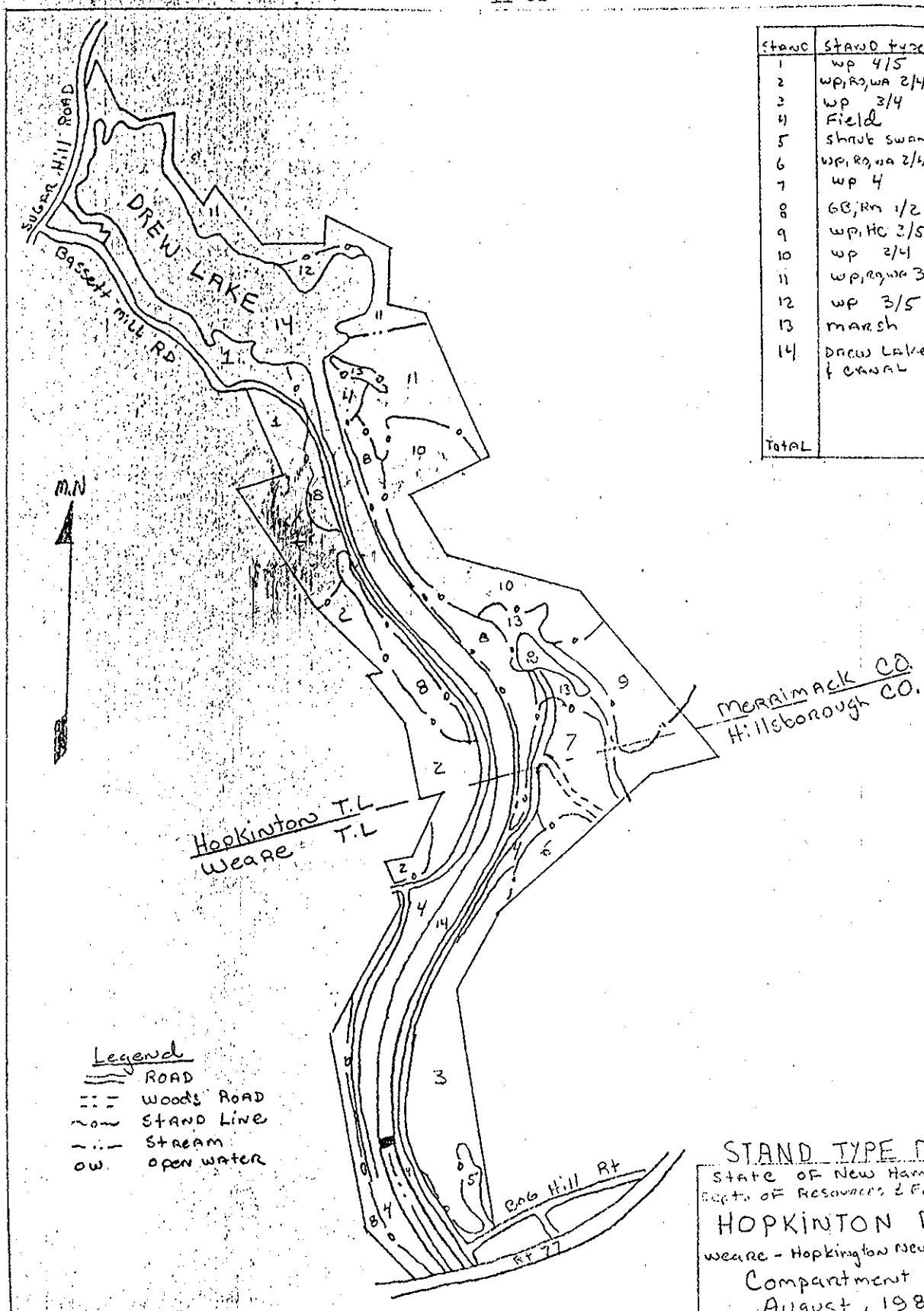
Legend
- == Woods Road
- ++ Barbed wire
- --→ Intermittent Stream
- oooo Stone wall
- -o- Stand Line
- M Marsh
- OW Open water
- S&G Sand & Gravel

STAND TYPE MAP

State of New Hampshire
Dept. of Resources & Economic Dev.

EVERETT LAKE

Weare-Dunbarton, New Hampshire
Compartment # 8
August, 1979
654.0 Acres
Scale 1" = 1200'
Drawn By: K. Salamy



STAND	STAND TYPE	ACRES
1	wp 4/5	25.5
2	wp, Rp, wa 2/4	15.5
3	wp 3/4	38.0
4	Field	66.0
5	shrub swamp	3.0
6	wp, Rp, wa 2/4	4.0
7	wp 4	13.0
8	GB, Rm 1/2	27.0
9	wp, HC 3/5	11.5
10	wp 2/4	29.0
11	wp, Rp, wa 3	36.5
12	wp 3/5	3.0
13	marsh	9.0
14	DREW LAKE & CANAL	92.0
TOTAL		373.0

STAND TYPE MAP

State of New Hampshire
Dept. of Resources & Economic Dev.

HOPKINTON DAM

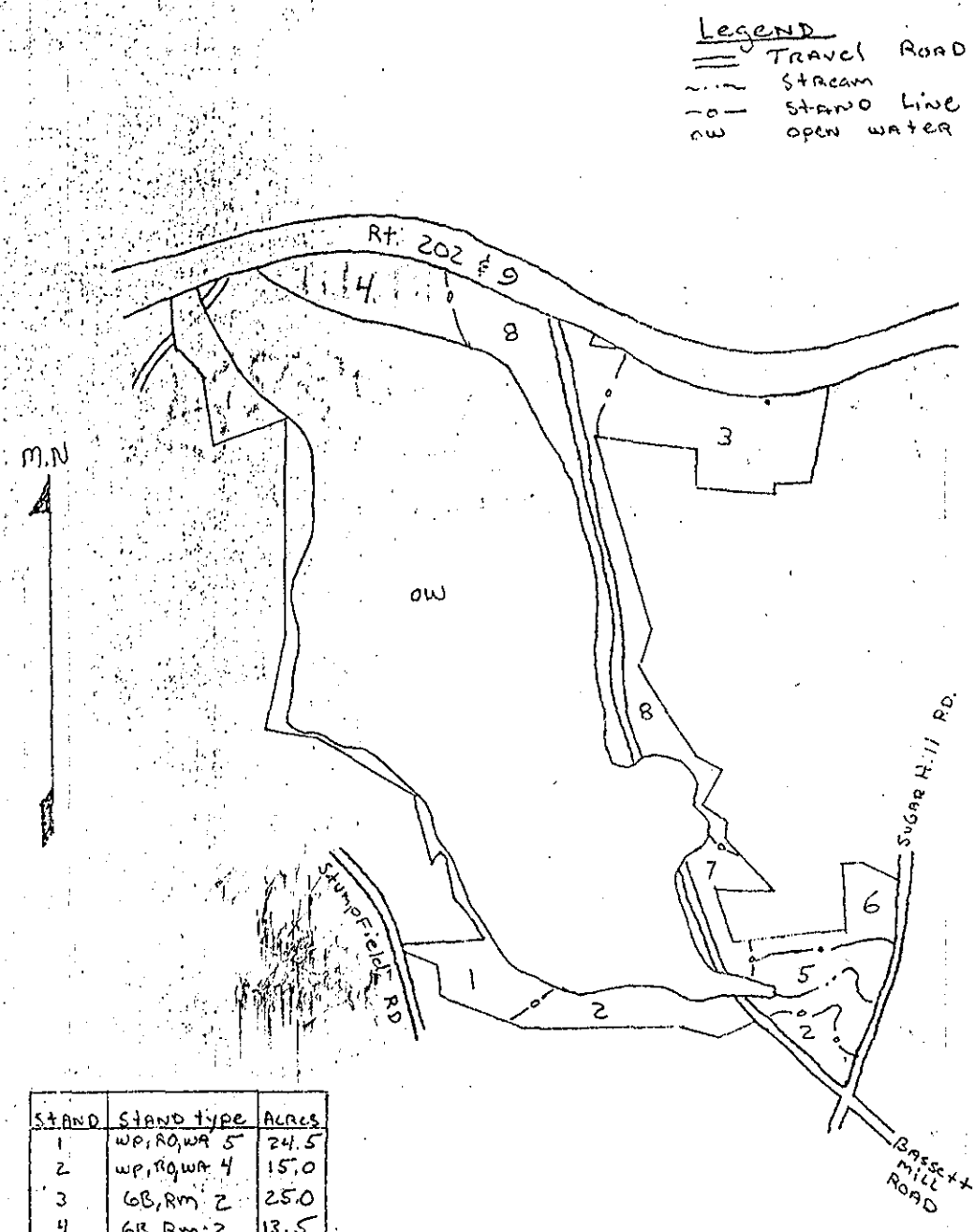
Weare - Hopkinton New Hampshire

Compartment # 1

August, 1980

373.0 ACRES Scale 1" = 1200'

Drawn By: K. Salamy



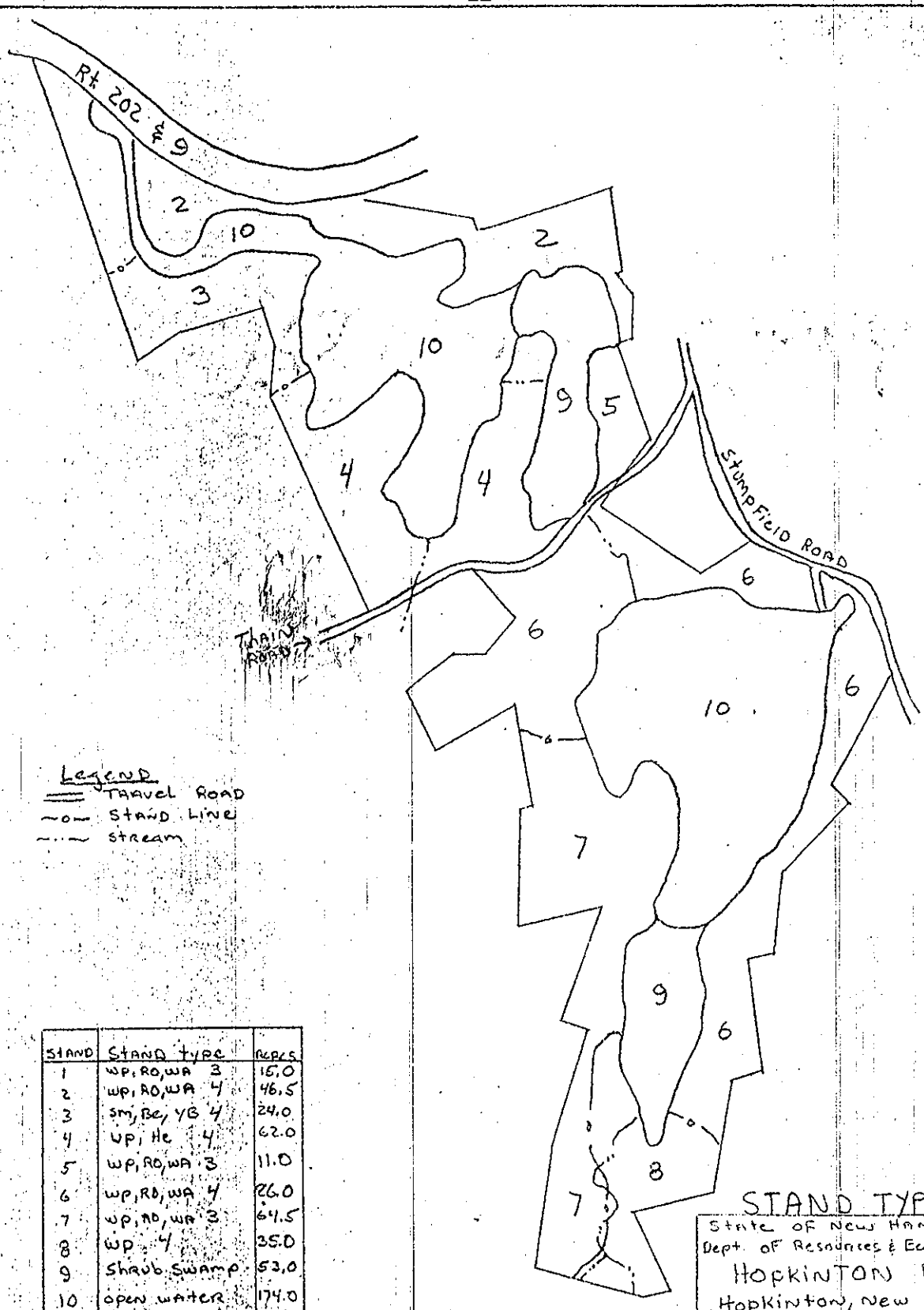
Stand	Stand type	Acres
1	WP, RO, WA 5	24.5
2	WP, RO, WA 4	15.0
3	GB, Rm 2	25.0
4	GB, Rm 2	13.5
5	GB, Rm 2	11.0
6	WP, RO, WA 4	6.0
7	Brush	7.5
8	WP, RO, WA 4	35.0
total		137.5

STAND TYPE MAP

State of New Hampshire
Dept. of Resources & Economic Dev.

HOPKINTON DAM

Hopkinton, New Hampshire
Compartment # 2
August 1980
3550 Acres
Scale 1" = 1200'
Drawn By: K. Sinclair

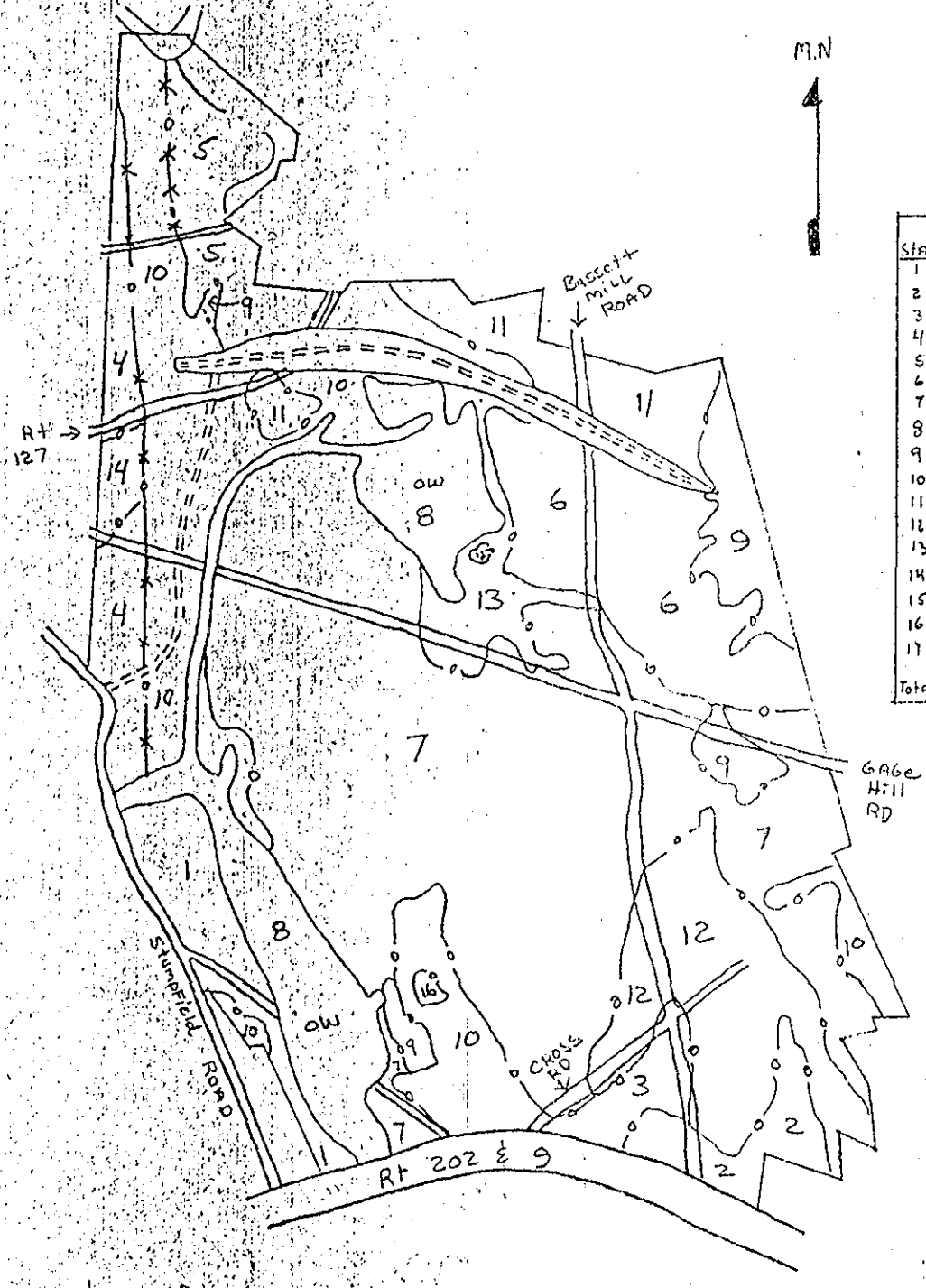


Legend
Travel Road
Stand Line
Stream

STAND	STAND TYPE	ACRES
1	WP, RO, WA 3	15.0
2	WP, RO, WA 4	46.5
3	SM, BE, YB 4	24.0
4	UP, HE 4	62.0
5	WP, RO, WA 3	11.0
6	WP, RO, WA 4	26.0
7	WP, RO, WA 3	64.5
8	WP 4	35.0
9	Shrub Swamp	53.0
10	Open Water	174.0
TOTAL		564.0

STAND TYPE MAP

State of New Hampshire
Dept. of Resources & Economic Dev.
HOPKINTON DAM
Hopkinton, New Hampshire.
Compartment # 3
August, 1980
564.0 ACRES * Scale 1" = 1200'
Drawn: S. K. SALAMY



Stand	Stand type	Acres
1	wp 4	23.5
2	wp, ro, wa 4	11.0
3	wp 4	141.0
4	wp 4	19.5
5	wp 4	36.5
6	wp, rq wa 4	56.0
7	wp, ro, wa 3/4	266.5
8	open water	72.0
9	cb, wm 1/2	27.0
10	Fields	106.0
11	wp, ro, wa 3	25.0
12	swamp	56.0
13	wetland	19.0
14	Field	4.5
15	wp 5	6.0
16	wp, ro, wa 3/4	9.0
17	wp, ro, wa	4.5
Total		756.0

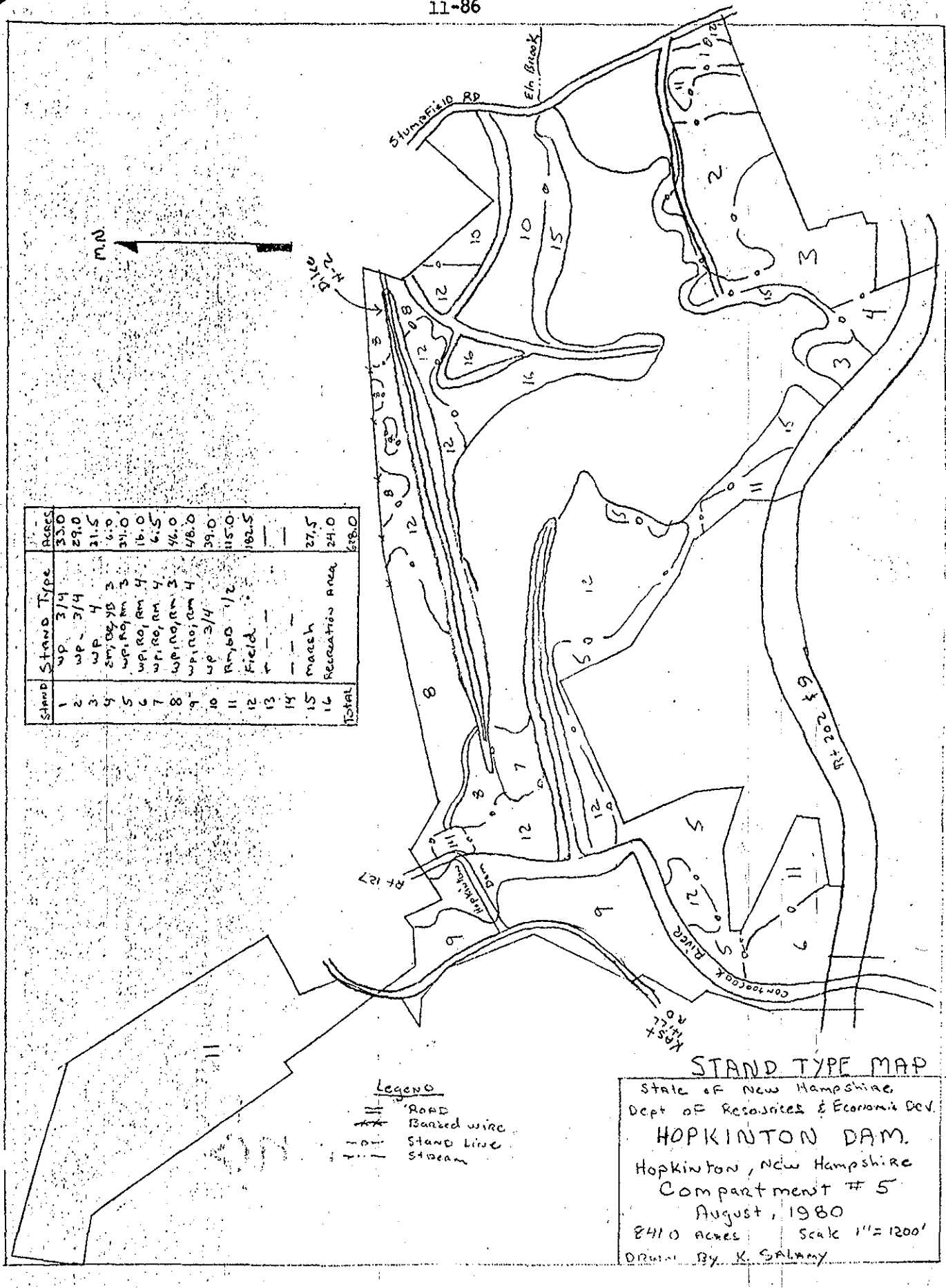
Legend
- Drivable Road
- Woods Road
- Stand Line
- Barbed Wire
- OW open water

STAND TYPE MAP

State of New Hampshire
Dept. of Resources & Economic Dev.

HOPKINTON DAM

Hopkinton, New Hampshire
Compartment # 4
August, 1980
756.0 acres Scale 1"=1200'
Drawn By: K. Salamy



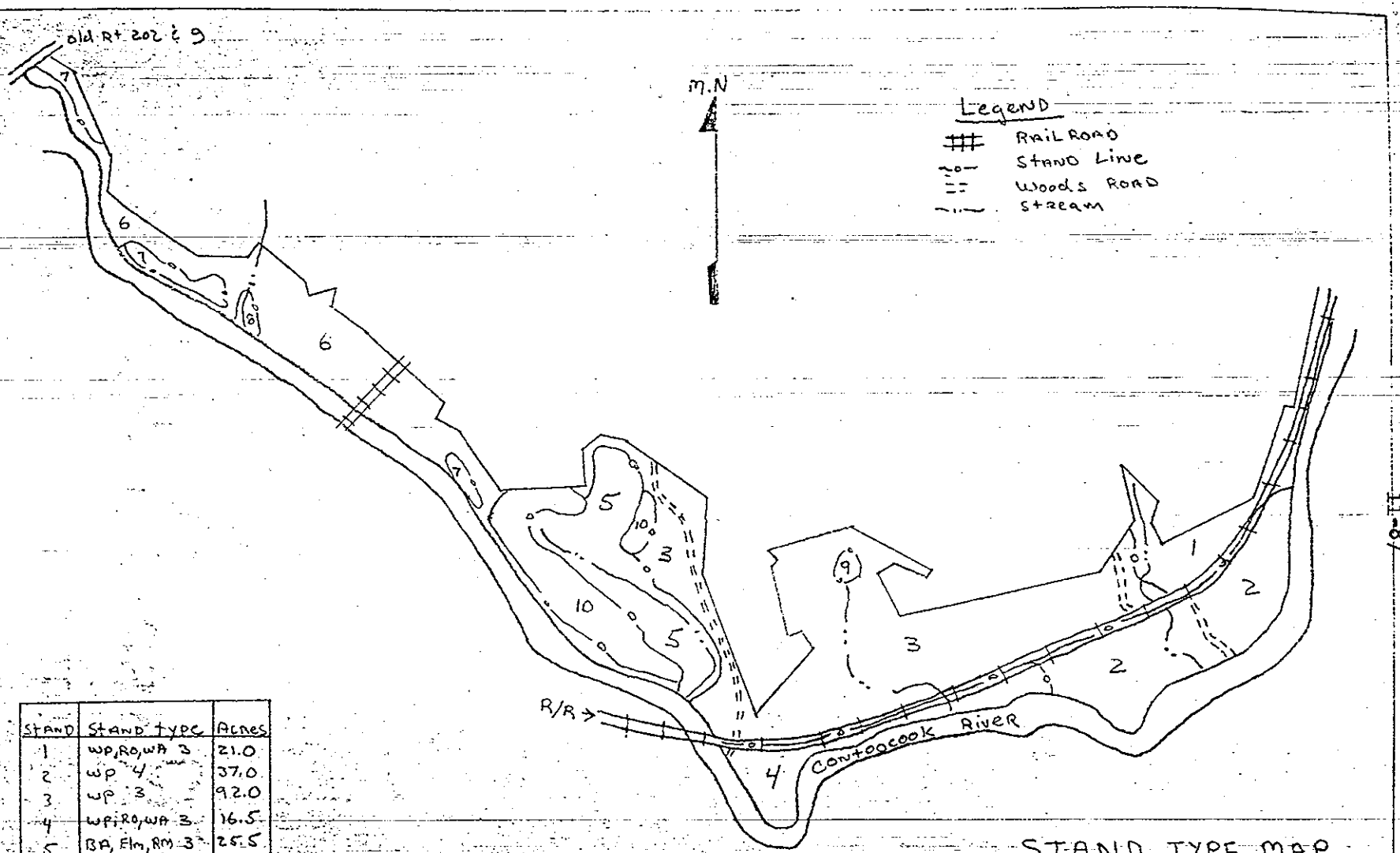
Stand	Stand Type	Acres
1	wp 3/4	33.0
2	wp 3/4	29.0
3	wp 4	21.5
4	sm,BG,YB 3	6.0
5	wp,RO,am 4	31.0
6	wp,RO,am 4	16.0
7	wp,RO,am 3	6.5
8	wp,RO,am 3	46.0
9	wp,RO,am 4	48.0
10	wp 3/4	39.0
11	Rn,BG 1/2	115.0
12	Field	182.5
13	— — —	—
14	— — —	—
15	Marsh	27.5
16	Recreation area	24.0
Total		618.0

STAND TYPE MAP

State of New Hampshire
Dept of Resources & Economic Dev.

HOPKINTON DAM.

Hopkinton, New Hampshire
Compartment # 5
August, 1980
841.0 acres Scale 1" = 1200'
Drawn By K. Salamy



STAND	STAND TYPE	ACRES
1	WP,RO,WA 3	21.0
2	WP 4	37.0
3	WP 3	92.0
4	WP,RO,WA 3	16.5
5	BA, Elm, RM 3	25.5
6	WP,RO,WA 3	44.0
7	Fields	7.0
8	MARSH	1.0
9	WATER	1.0
10	Fields	17.0
TOTAL		262.0

STAND TYPE MAP

STATE OF NEW HAMPSHIRE
Dept. OF RESOURCES & ECONOMIC DEV.

HOPKINTON DAM

Hopkinton, New Hampshire
Compartment # 6
August, 1980
262.0 ACRES scale 1" = 1200'
DRWN BY: K. SALAMY

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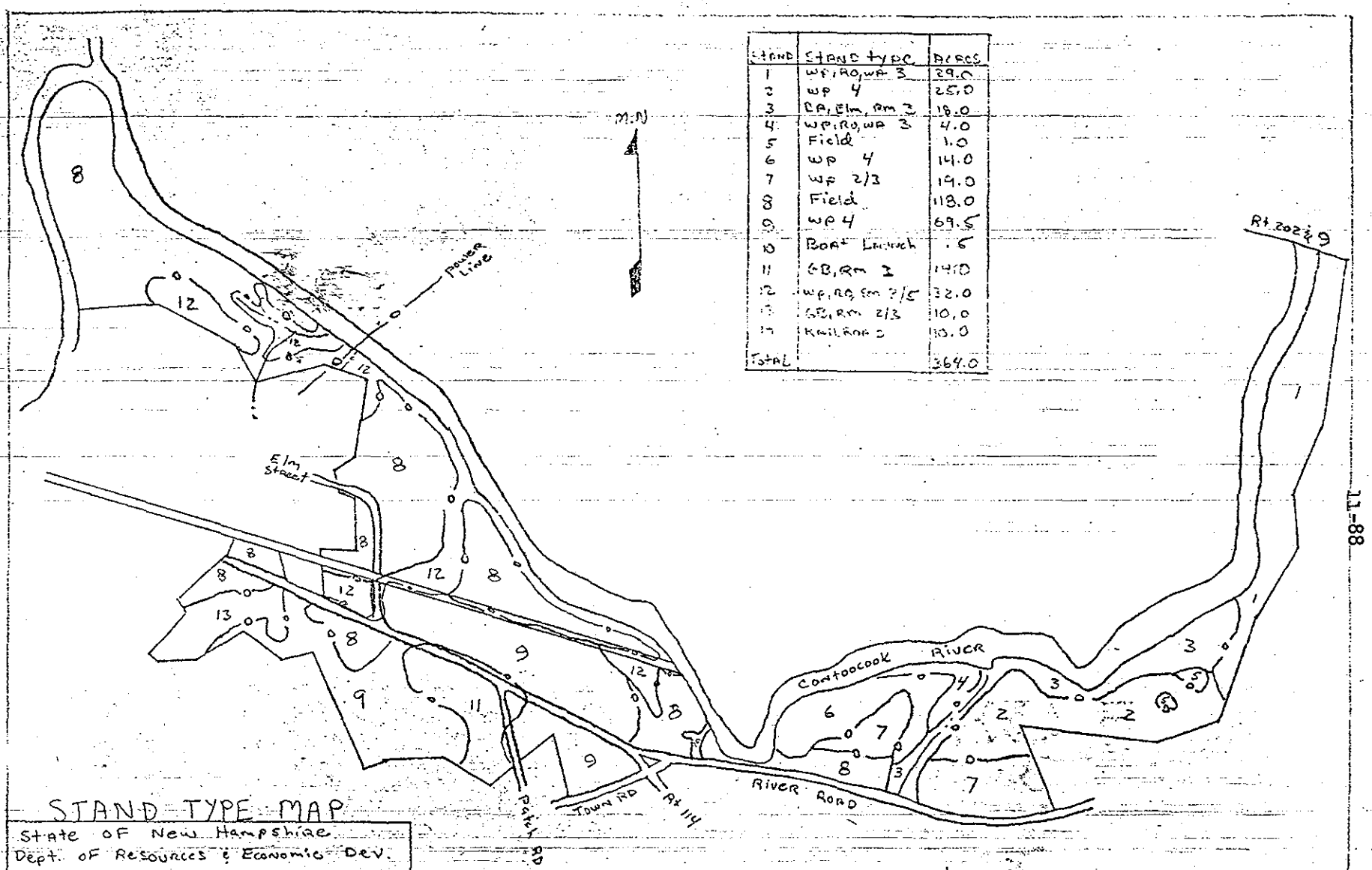


Stand	Stand type	Acres
1	WP, RO, WA 3	29.0
2	WP 4	25.0
3	RA, Elm, Am 3	18.0
4	WP, RO, WA 3	4.0
5	Field	1.0
6	WP 4	14.0
7	WP 2/3	19.0
8	Field	118.0
9	WP 4	69.5
10	Boat Launch	.6
11	SB, Rm 1	14.0
12	WP, RO, Sm 2/5	32.0
13	SB, Rm 2/3	10.0
14	Railroad	10.0
Total		364.0

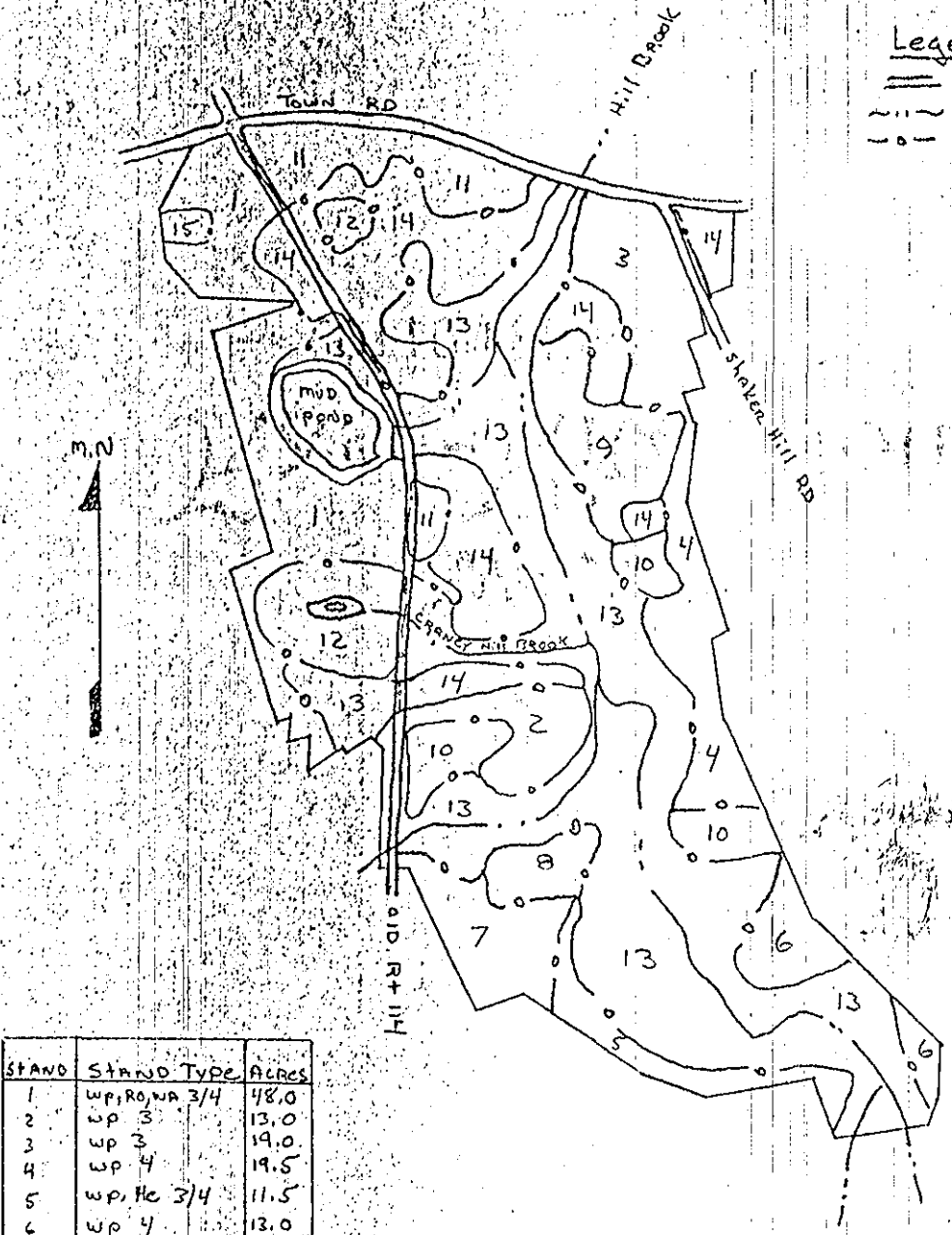
Legend
- Road
- Stand Line
- Stream

STAND TYPE MAP

State of New Hampshire
Dept. of Resources & Economic Dev.

Hopkinton Dam
Hopkinton, New Hampshire
Compartment # 7
August, 1980
364.0 Acres Scale 1" = 1200'
Drawn By: K. Sainmy

11-88



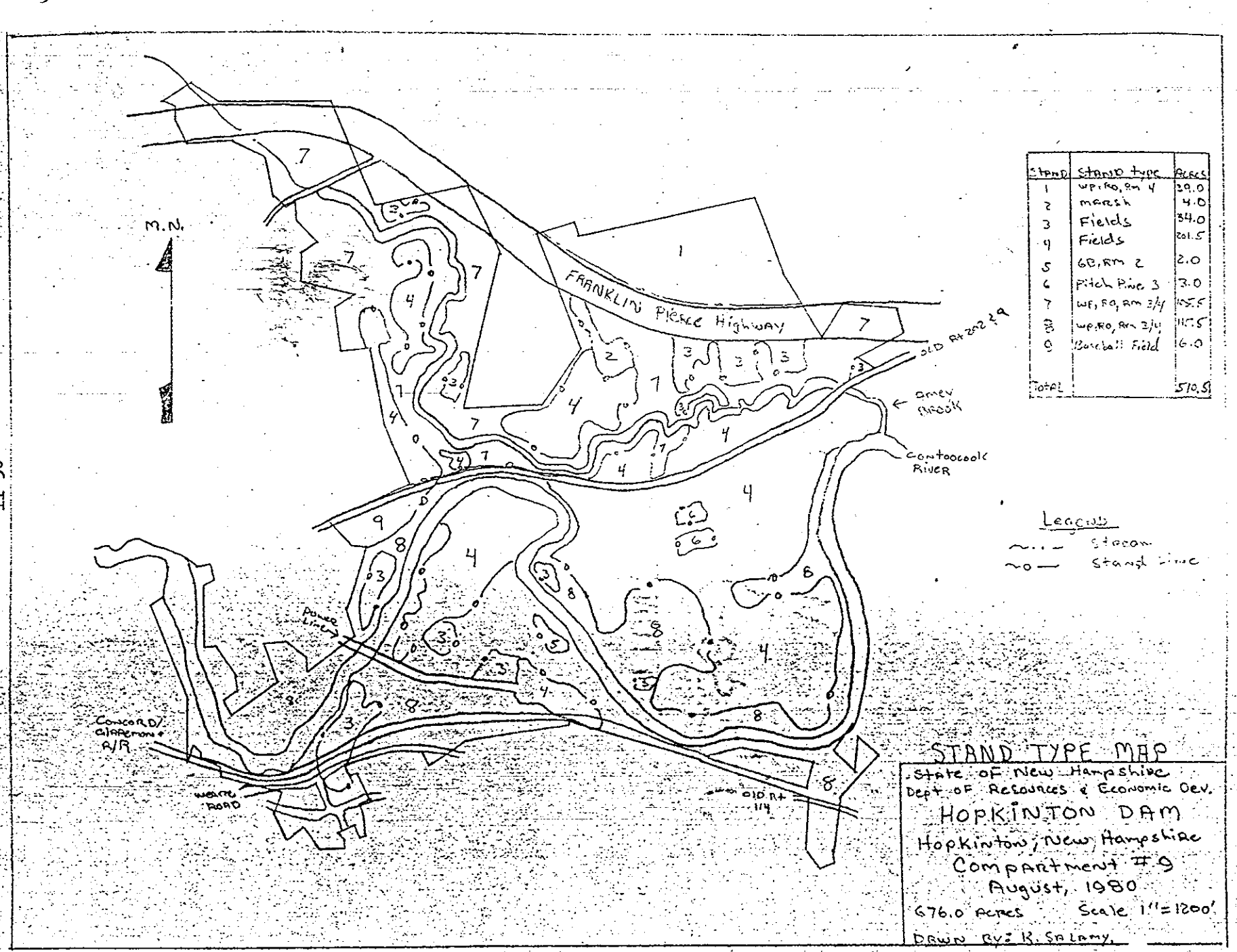
Stand	Stand Type	Acres
1	WP, RO, WA 3/4	48.0
2	WP 3	13.0
3	WP 3	19.0
4	WP 4	19.5
5	WP, He 3/4	11.5
6	WP 4	13.0
7	WP, RO, WA 3	16.5
8	RP 3	7.0
9	Alder 2	17.0
10	Fields	16.5
11	Fields	17.5
12	Marsh	17.0
13	GB, RM 2	155.0
14	GB, RM 3	76.5
15	Ski Jump	1.5
Total		449.0

STAND TYPE MAP

State of New Hampshire
Dept. of Resources & Economic Dev.

HOPKINTON DAM

Hopkinton, New Hampshire
Compartment # 8
August, 1980
463.0 Acres Scale 1" = 1200'
Drawn By: K. Salamy



Stand	Stand type	Acres
1	WP, RO, Sm 4	29.0
2	marsh	4.0
3	Fields	34.0
4	Fields	201.5
5	GB, Sm 2	2.0
6	Pitch Pine 3	3.0
7	WP, RO, Sm 3/4	105.5
8	WP, RO, Sm 3/4	111.5
9	Baseball Field	6.0
Total		510.5

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